CFD-ZW750/ZW770

SERVICE MANUAL

US Model
Canadian Model

Ver 1.0 1999. 01

Photo : CFD-ZW770

SPECIFICATIONS

CD Section	Model Name Using Similar Mechanism	PMC-D305
	CD Mechanism Type	KSM-213CDM
	Optical Pick-up Name	KSS-213C
TC Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-ZW750-117

AUDIO POWER SPECIFICATIONS (US Model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

CFD-ZW750:

With 3.2-ohm loads, both channels driven from 150 - 8,000 Hz; rated 2 W per channel-minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

CFD-ZW770:

With 6-ohm loads, both channels driven from 150 - 8,000 Hz; rated 3.6 W per channel-minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

Other Specifications

CD player section

System
- Compact disc digital audio system

Laser diode properties
- Material: GaAlAs
- Wave length: 780 nm
- Emission duration: Continuous
- Laser output: Less than 44.6 µW
- (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Spindle speed
- 200 r/min (rpm) to 500 r/min (rpm) (CLV)

Number of channels
- 2

Frequency response
- 20 - 20,000 Hz +1/–2 dB

Wow and flutter
- Below measurable limit

Radio section

Frequency range
- FM: 87.6 - 108 MHz
- AM: 530 - 1,710 kHz

Antennas
- FM: Telescopic antenna
- AM: Built-in ferrite bar antenna

Cassette-corder section

Recording system
- 4-track 2 channel stereo

Fast winding time
- Approx. 120 s (sec.) with Sony cassette C-60

Frequency response
- TYPE I (normal): 80 - 12,500 Hz

– Continued on next page –

CD RADIO CASSETTE-CORDER

MICROFILM

SONY®

General

Speaker
- CFD-ZW750:
  Full range: 10 cm (4 in.) dia.,
  3.2 ohms, cone type (2)
- CFD-ZW770:
  Full range: 10 cm (4 in.) dia.,
  6 ohms, cone type (2)

Outputs
- Headphones jack (stereo minijack)
  For 16 - 68 ohms impedance headphones

Power output (excluding US model)
- CFD-ZW750:
  2.3 W + 2.3 W (at 3.2 ohm, 10% harmonic distortion in AC operation)
- CFD-ZW770:
  3.8 W + 3.8 W (at 6 ohm, 10% harmonic distortion in AC operation)

Power requirements
- For CD radio cassette-corder:
  120 V AC, 60 Hz
  9 V DC, 6 size D (R20) batteries
- For memory back-up:
  4.5 V DC, 3 size AA (R6) batteries
- For remote controller:
  3 V DC, 2 size AA (R6) batteries

Power consumption
- CFD-ZW750: AC 15 W
- CFD-ZW770: AC 28 W

Battery life
- For CD radio cassette-corder:

FM recording	CFD-ZW750	CFD-ZW770
Sony R20P:	approx. 7.5 h	approx. 3.5 h
Sony alkaline LR20:	approx. 22 h	approx. 10 h
Tape playback		
Sony R20P:	approx. 7 h	approx. 1.5 h
Sony alkaline LR20:	approx. 20 h	approx. 5 h
CD playback		
Sony R20P:	approx. 3 h	approx. 1.5 h
Sony alkaline LR20:	approx. 10 h	approx. 4 h

- For memory back-up: approx. 1 year

Dimensions
- Approx. 630 × 268 × 256 mm (w/h/d)
  (24 7/8 × 10 5/8 × 10 1/8 inches) (incl. projecting parts)

Mass
- CFD-ZW750:
  Approx. 6.7 kg (14 lb. 12 oz.) (incl. batteries)
- CFD-ZW770:
  Approx. 7.9 kg (17 lb. 7 oz.) (incl. batteries)

Supplied accessories
- AC power-cord (1)
- Remote controller (1) (RMT-CZW750A)

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SERVICING NOTES

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

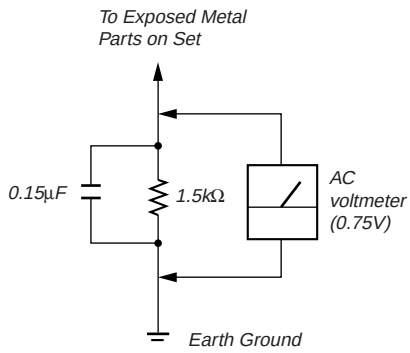
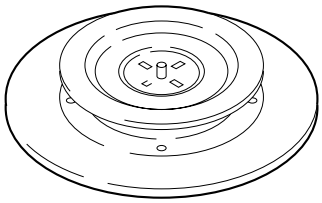


Fig. A. Using an AC voltmeter to check AC leakage.

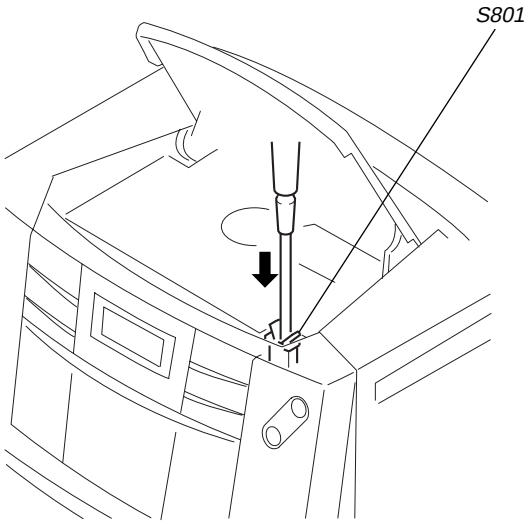
CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.
• Code number of Chuck Plate Jig: X-4918-255-1



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Turn on POWER button and press CD button to CD position.
2. Open the CD lid.
3. Turn on S801 as following figure.
4. Press the ► ❚❚ (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down three times for focus search.



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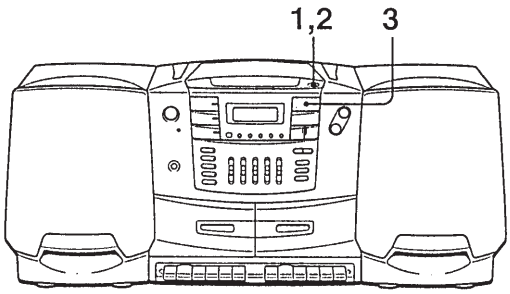
This section is extracted from instruction manual.

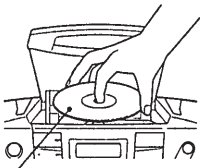
Playing a CD



For hookup instructions, see pages 25 – 27.

1

Push ≙ PUSH OPEN/CLOSE down to open the CD compartment and place the CD on the CD compartment.



With the label side up

2

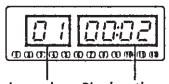
Close the lid of the CD compartment.

3

Press ►II.

The player turns on (direct power-on) and plays all the tracks once.

Display

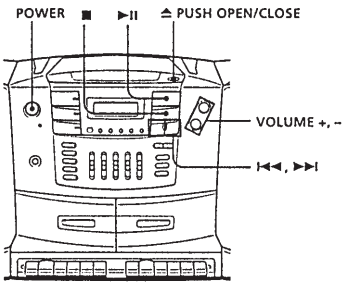


Track number Playing time

Tip

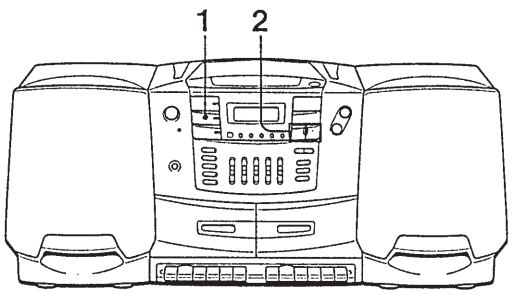
Next time you want to listen to a CD, just press ►II. The player turns on automatically and starts playing the CD.

Use these buttons for additional operations



To	Press
adjust the volume	VOLUME +, – (VOL +, – on the remote, CFD-ZW750/ZW770 only)
stop playback	■
pause playback	►II (II on the remote, CFD-ZW750/ZW770 only) Press the button again to resume play after pause.
go to the next track	►►I
go back to the previous track	I◄◄
remove the CD	≙ PUSH OPEN/CLOSE
turn on/off the player	POWER

Listening to the radio

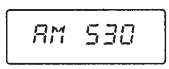


For hookup instructions, see pages 25 – 27.

1

Press RADIO BAND until the band you want appears in the display (direct power-on).

Display



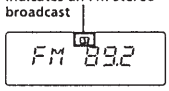
2

Hold down TUNE•TIME SET + or – (TUNE + or – on the remote, CFD-ZW750/ZW770 only) until the frequency digits begin to change in the display.

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you cannot tune in to a station, press the button repeatedly to change the frequency step by step.

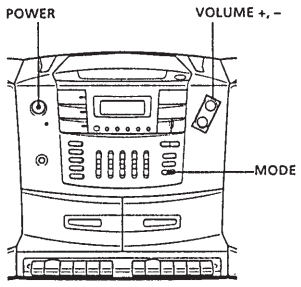
Indicates an FM stereo broadcast



Tips

- If the FM broadcast is noisy, press MODE until "Mono" appears in the display and radio will play in monaural.
- Next time you want to listen to the radio, just press RADIO BAND. The player turns on automatically and starts playing the previous station.

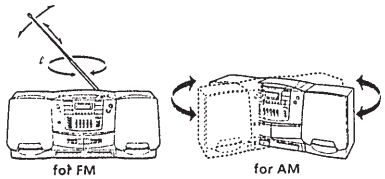
Use these buttons for additional operations



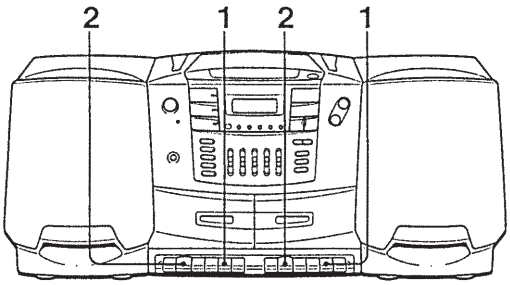
To	Press
adjust the volume	VOLUME +, – (VOL +, – on the remote, CFD-ZW750/ZW770 only)
turn on/off the radio	POWER

To improve broadcast reception

Reorient the antenna for FM. Reorient the player itself for AM.



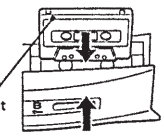
Playing a tape



For hookup instructions, see pages 25 – 27.

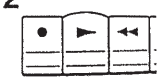
1

Press ■≙ to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only. Close the compartment.



With the side you want to play facing you

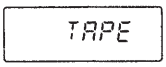
2



Press ►.

The player turns on (direct power-on) and starts playing.

Display



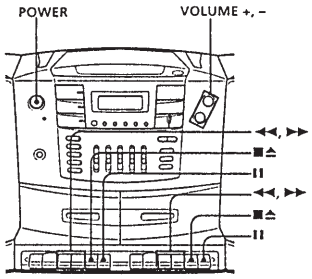
Note

During playback, do not press buttons on the other deck. Otherwise the playback speed may change.

Tip

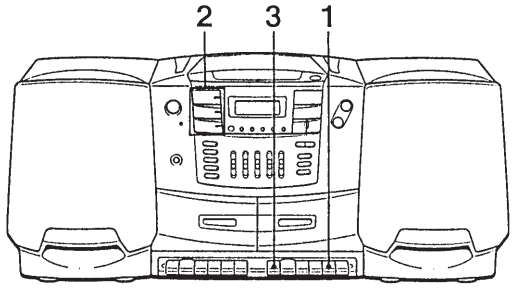
Next time you want to listen to a tape, just press ►. The player turns on automatically and starts playing the tape.

Use these buttons for additional operations



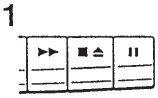
To	Press
adjust the volume	VOLUME +, – (VOL +, – on the remote, CFD-ZW750/ZW770 only)
stop playback	■≙
fast-forward or rewind the tape	►► or ◄◄
pause playback	II Press the button again to resume play after pause.
eject the cassette.	■≙
turn on/off the player	POWER

Recording on a tape

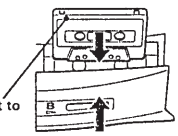


For hookup instructions, see pages 25 – 27.

1



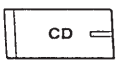
Press ■≙ to open the tape compartment on deck B and insert a blank tape. Use TYPE I (normal) tape only.



With the side you want to record on facing you

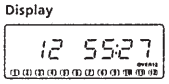
2

Select the program source you want to record.

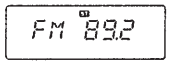


To record from the CD player: insert a CD (see page 4) and press CD.

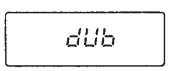
Display



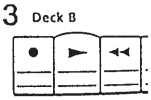
To record from the radio: tune in the station you want (see page 6).



To record from the tape (dubbing): insert a recorded tape into deck A and press TAPE until "dUb" appears in the display.



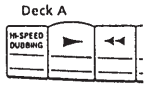
3 Deck B



Start recording.

To record from the CD player and the radio, press ● on deck B (► is depressed automatically).

Deck A

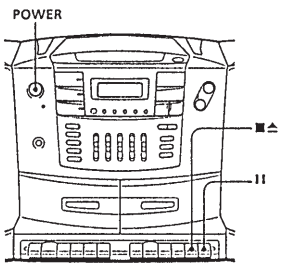


To record from the tape, press ● on deck B (► is depressed automatically). Then press ► on deck A. (For high speed dubbing, press HIGH-SPEED DUBBING instead of ► on deck A).

Tips

- Adjusting the volume or the audio emphasis (see pages 28 and 29) will not affect the recording level.
- If the AM program makes a whistling sound after you have pressed ● in step 3, set the ISS (Interference Suppress Switch) at the rear of the player to the position that most decreases the noise.
- For the best results, use the AC power as a power source.

Use these buttons for additional operations



To	Press
stop recording	■≙ on deck B
pause recording	II on deck B Press the button again to resume recording.
turn on/off the player	POWER

To erase a recording, proceed as follows:

1 Insert a tape whose recording you want to erase into deck B.
2 Press TAPE untill "TAPE" appears in the display.
3 Press ●.

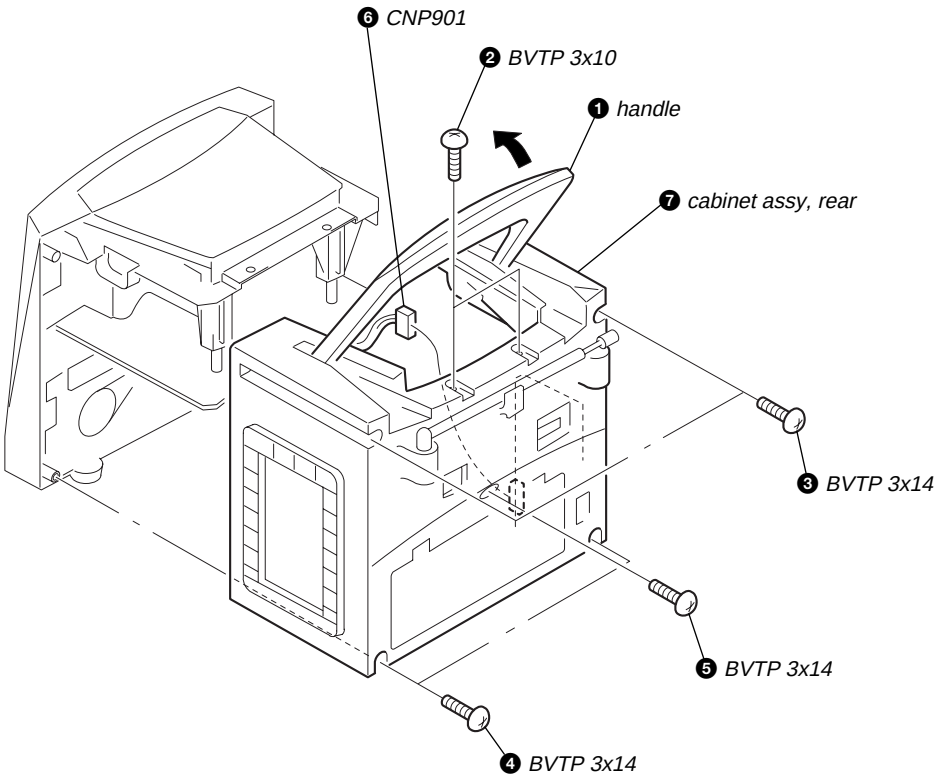
SECTION 2
DISASSEMBLY

• The equipment can be removed using the following procedure.

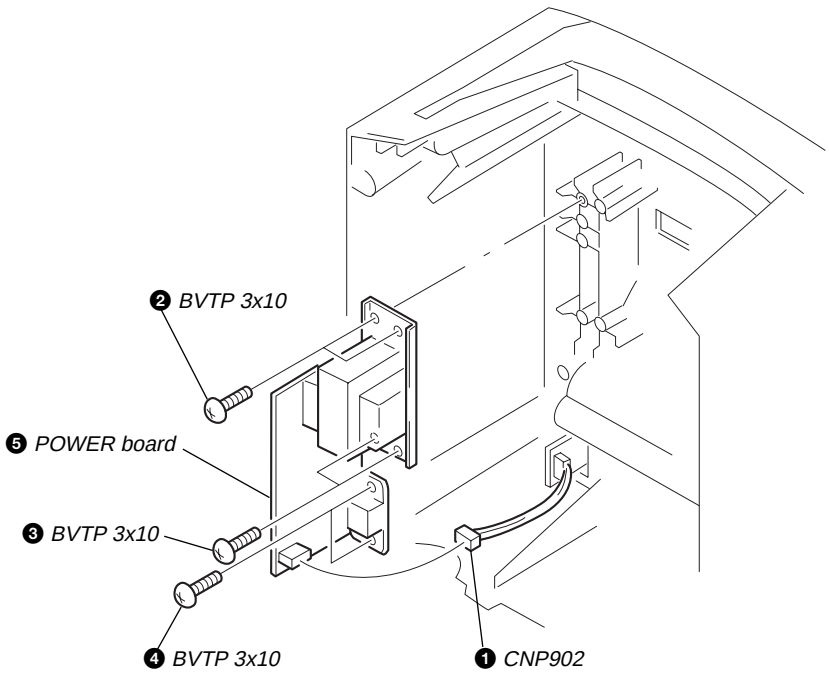
Set → Cabinet assy, rear → CD block assy → Main board → CD board → Optical pick-up section
CD block assy → MD block assy, REC board
CD block assy → Power board
Main board → Control Board → Key board, Lamp board

Note : Follow the disassembly procedure in the numerical order given.

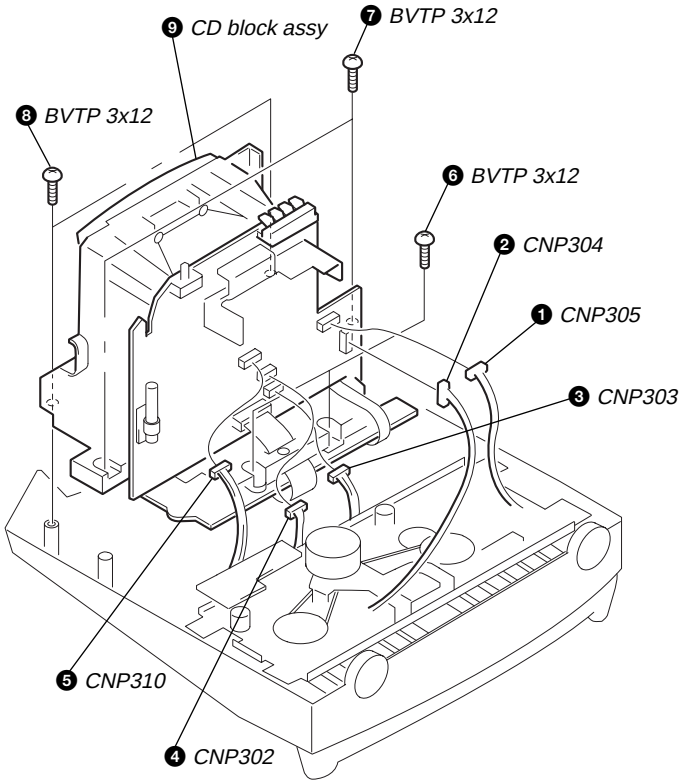
2-1. CABINET ASSY, REAR



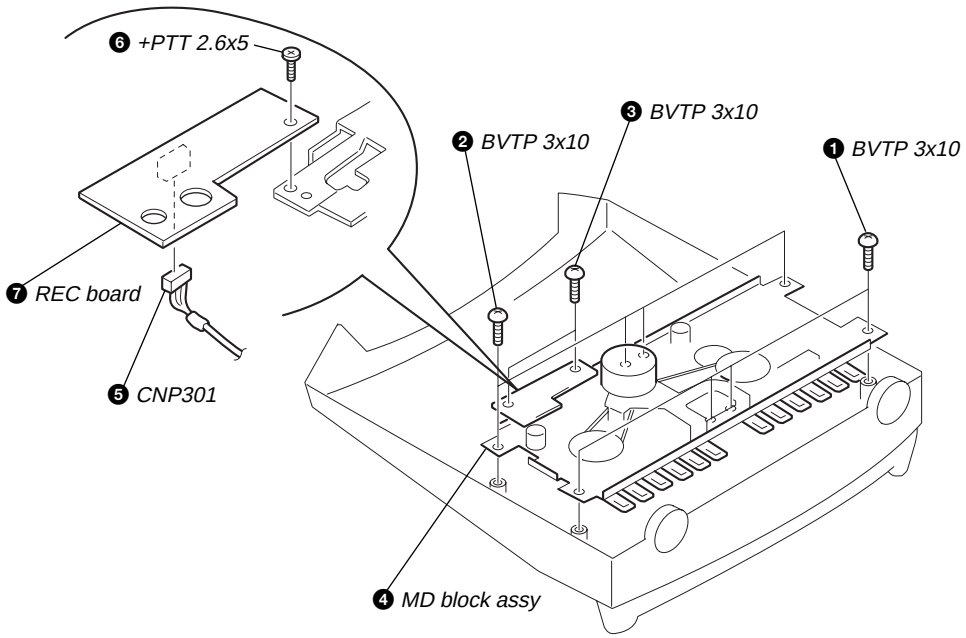
2-2. POWER BOARD



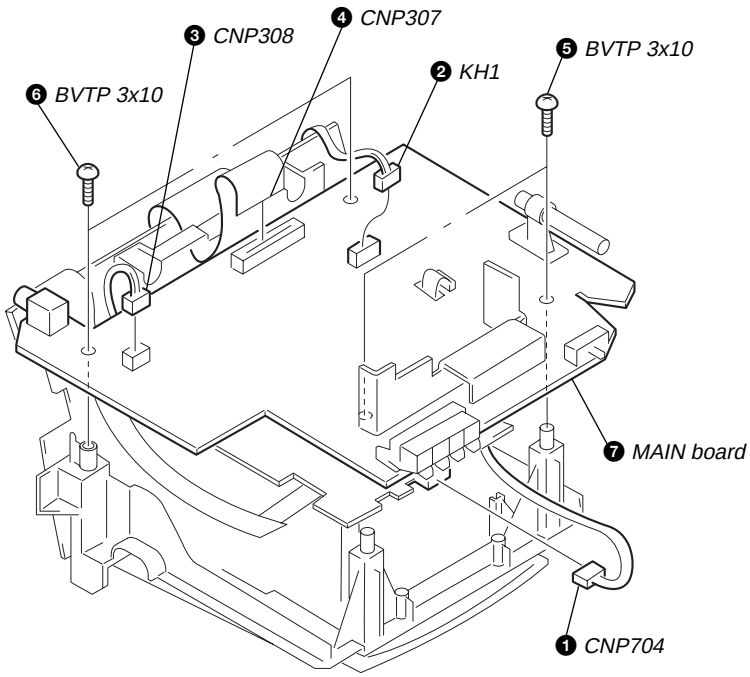
2-3. CD BLOCK ASSY



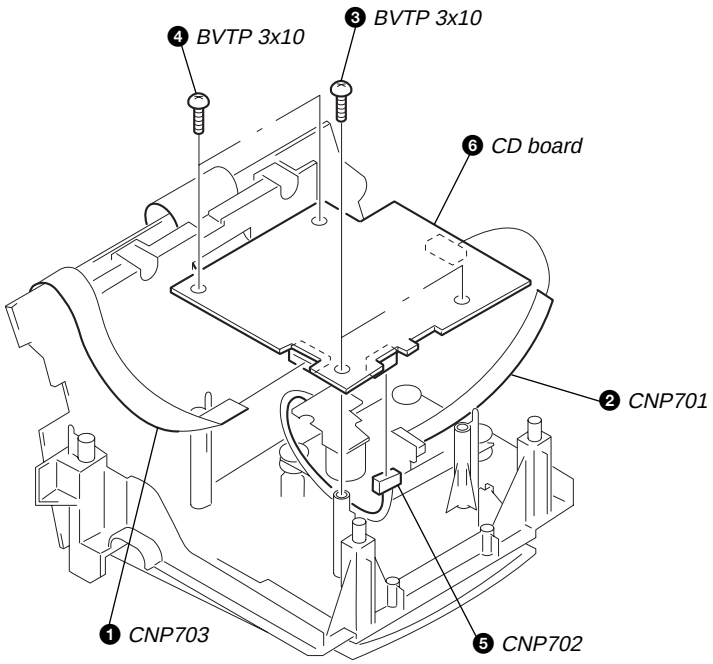
2-4. MD BLOCK ASSY, REC BOARD



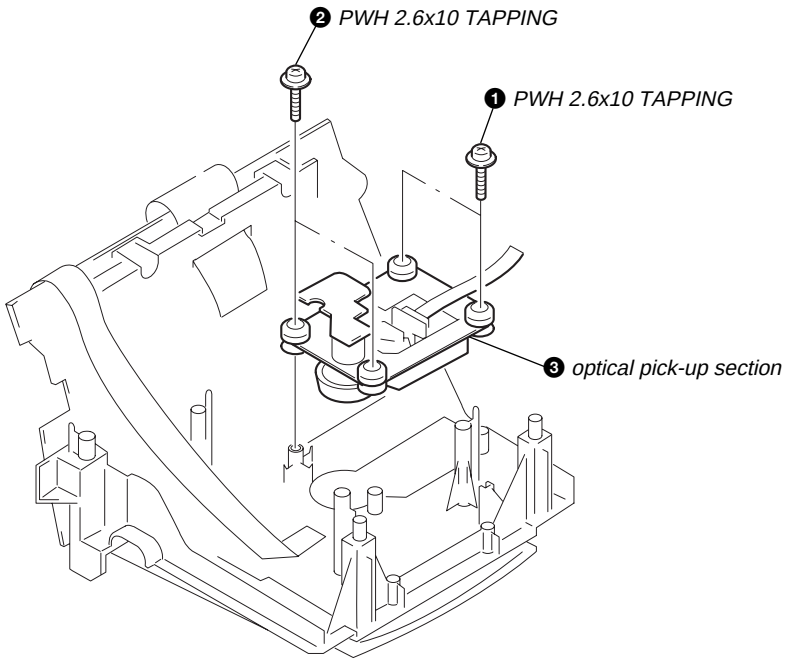
2-5. MAIN BOARD



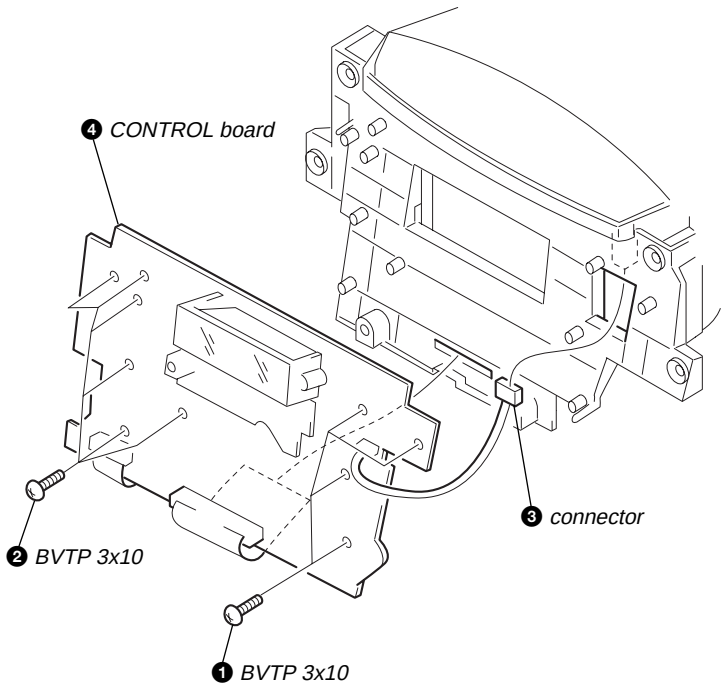
2-6. CD BOARD



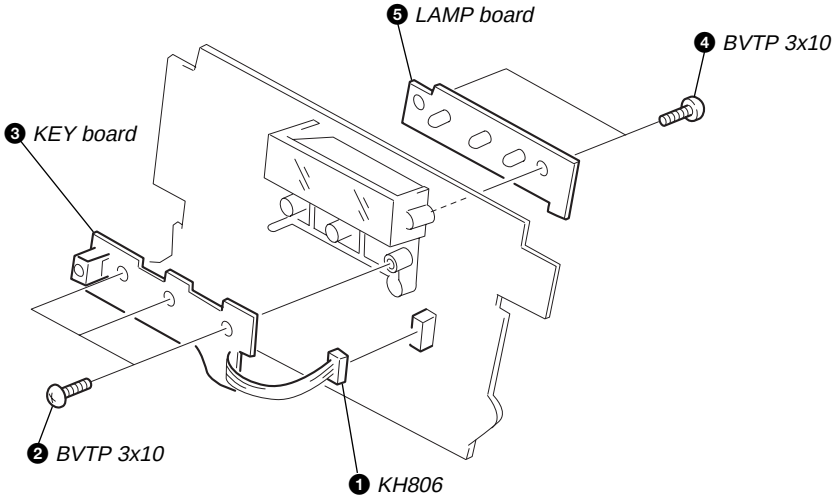
2-7. OPTICAL PICK-UP SECTION



2-8. CONTROL BOARD



2-9. KEY BOARD, LAMP BOARD



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab :
   record/playback head pinch roller
   erase head rubber belts
   capstan idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. Power supply voltage: 9 V dc.

Torque Measurement DECK A DECK B

Mode	Torque meter	Meter reading
Forward	CQ-102C	22.5 to 55 g • cm (0.31 to 0.76 oz • inch)
Forward back tension	CQ-102C	2 to 5 g • cm (0.03 to 0.07 oz • inch)
Fast Forward and Rewind	CQ-201B	60 to 120 g • cm (0.83 to 1.67 oz • inch)

Tape Tension Measurement DECK A DECK B

Mode	Tension meter	Meter reading
Forward	CQ-403A	more than 150 g (more than 5.29 oz)

SECTION 4
ELECTRICAL ADJUSTMENTS

TAPE SECTION **0 dB = 0.775 V**

Standard Output Level

Output terminal	SP OUT	PHONES OUT
load impedance	3.2 Ω <6 Ω>	32 Ω
output signal level	0.775 V (0 dB)	0.25 V (–10 dB)

< >: CFD-ZW770

Test Tape

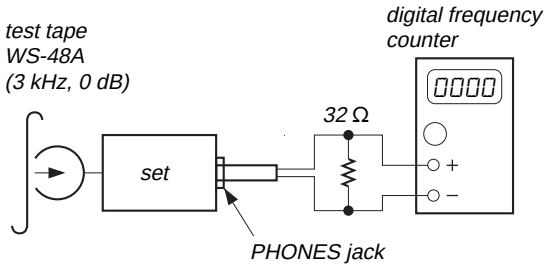
Tape	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment

Tape Speed Adjustment DECK A DECK B

Procedure:

• Perform normal speed adjustment before high speed check.

Mode: playback (deck A)
record (deck B)



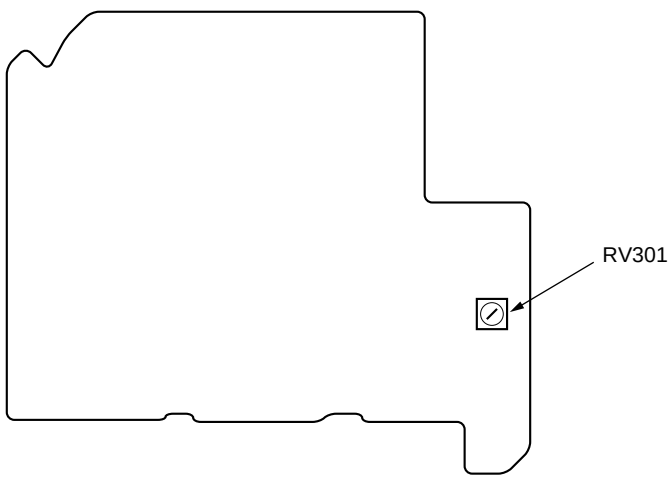
Adjust RV301 so that reading on digital frequency counter becomes 3,000 Hz.

Specification Value:

Deck	Tape speed	Adjustment point	Frequency counter
A	Normal (playback)	RV301	2,985 to 3,015 Hz
A	HI-SPEED DUBBING (playback)	(confirmation)	5,700 to 6,500 Hz
B	HI-SPEED DUBBING (record)	_____	_____

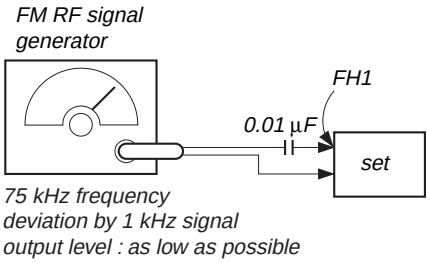
Frequency difference between the beginning and the end of the tape should be within ± 1.5% (both Normal and Hi-speed).

Adjustment Location: – main board (component side) –

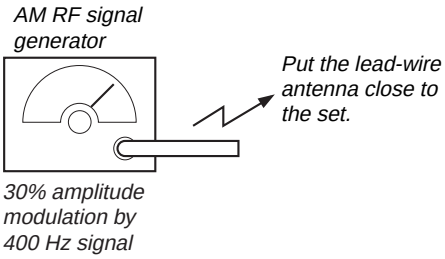


TUNER SECTION | 0 dB = 1 μV

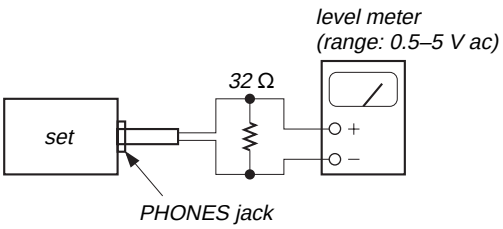
- **FM Section**
  Setting:
  RADIO BAND button: FM



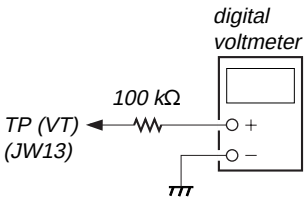
- **AM Section**
  Setting:
  RADIO BAND button: AM



- **Connecting Level Meter (FM and AM)**



- **Connecting Digital Voltmeter (FM and AM)**



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

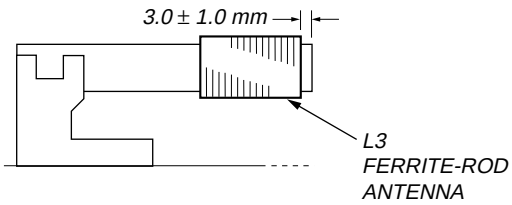
FM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	1.6 ± 0.2 V	3.8 ± 0.3V
Adjustment Part	<confirmation>	L2

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L1	CT1
87.5 MHz	108 MHz

AM FREQUENCY COVERAGE ADJUSTMENT		
Frequency Display	530 kHz	1,710 kHz
Reading on Digital voltmeter	0.85 ± 0.05 V	5.1 ± 0.3V
Adjustment Part	<confirmation>	<confirmation>

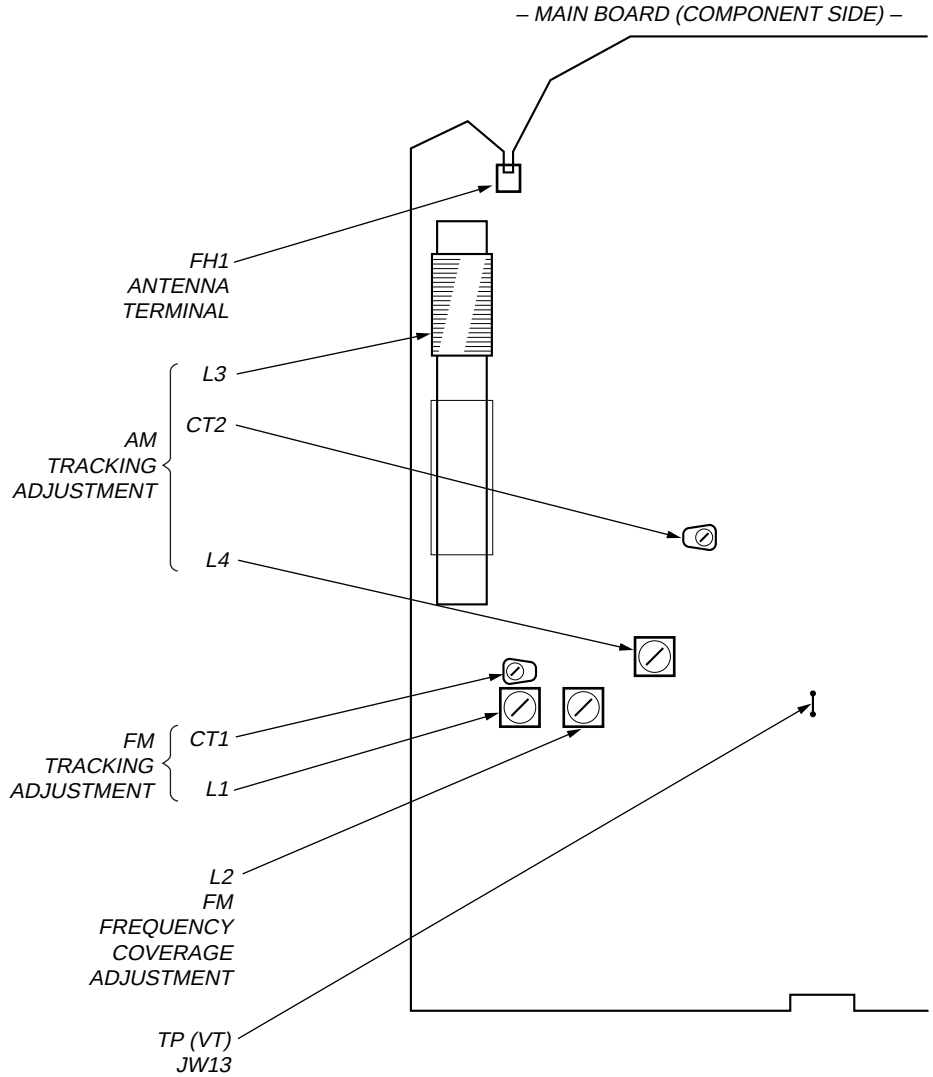
AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter.	
L4	CT2
620 kHz	1,400 kHz

- For AM adjustment, fix the ferrite-rod antenna (L3) as shown below and then perform tracking adjustment at L4 and CT2. Lastly check the voltage.



Adjustment Location: See page 14.

Adjustment Location: main board



CD SECTION

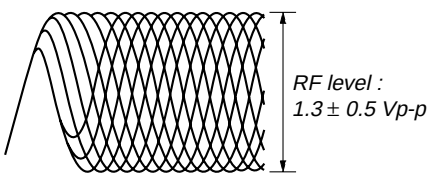
CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

FOCUS BIAS CHECK

1. Connect the oscilloscope between IC701 pin ㉝ (TP RFO) and GND on CD board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ►II button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

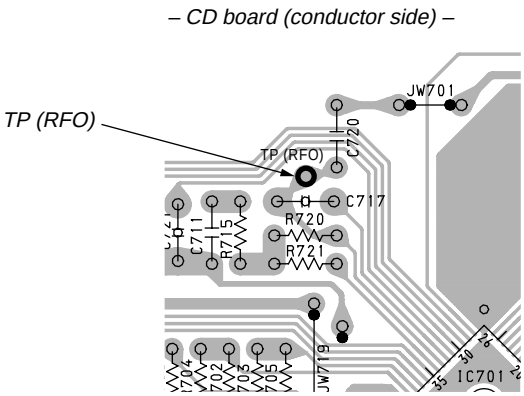
VOLT/DIV : 200 mV (10 : 1 probe in use)
TIME/DIV : 500 nS



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Test Point:

– CD board (conductor side) –



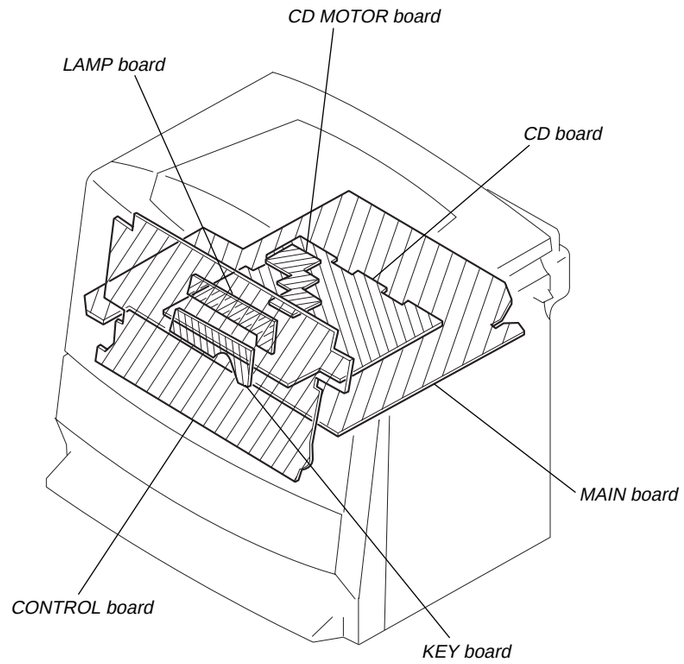
SECTION 5
DIAGRAMS

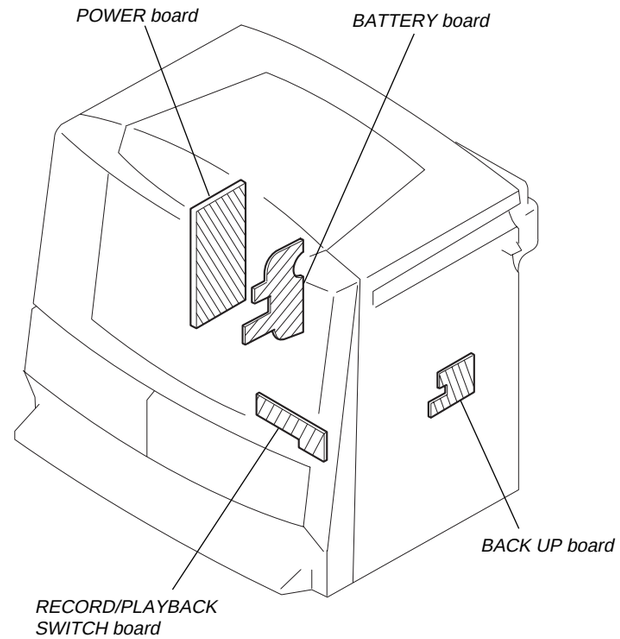
5-1. IC PIN DESCRIPTION

• IC801 CXP83620-001Q (SYSTEM CONTROL)

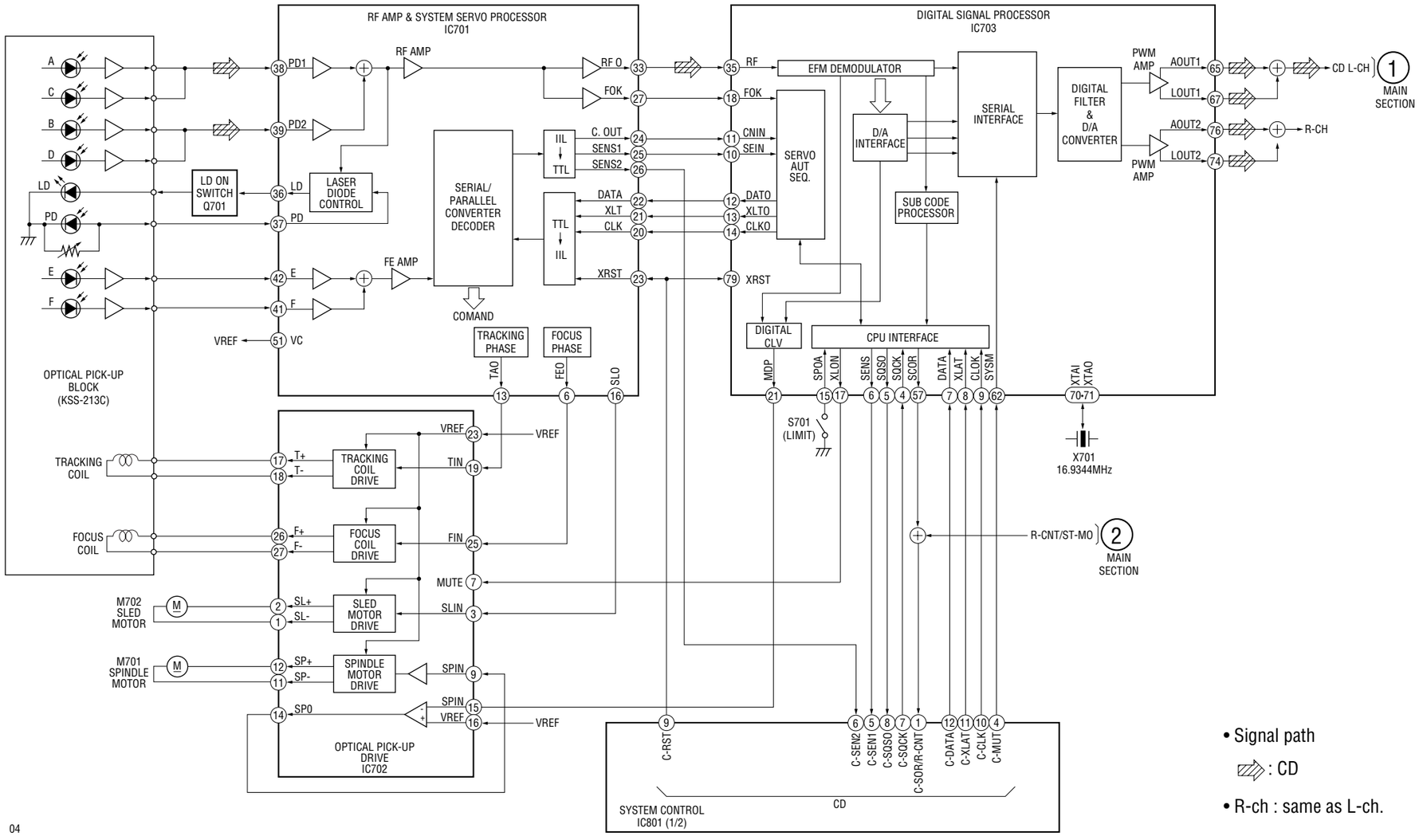
Pin No.	Pin Name	I/O	Pin Description
1	C-SCOR/R-CNT	I	CD SCOR input
2	RMC	I	Sircs receiver input
3	CD	O	CD function output
4	C-MUT	O	CD block mute output
5	C-SEN1	I	CD SENSE-1 input
6	C-SEN2	I	CD SENSE-2 input
7	C-SQCK	O	CD Sub-Q read clock output
8	C-SQSO	I	CD Sub-Q data input
9	C-RST	O	CD reset output
10	C-CLK	O	CD serial clock output
11	C-LAT	O	CD serial latch output
12	C-DATA	O	CD serial data output
13	PCON	O	System power control output
14	RADIO	O	LED (RADIO BAND) drive signal output (CFD-ZW770 only)/Tuner switch
15	TAPE	O	LED (TAPE) drive signal output (CFD-ZW770 only)/Tape switch
16	DUB.	O	LED (TAPE) drive signal output (CFD-ZW770 only)/Dubbing switch
17	CLUB	O	LED (CLUB) drive signal output (CFD-ZW770 only)
18	JAZZ	O	LED (JAZZ) drive signal output (CFD-ZW770 only)
19	POP	O	LED (POP) drive signal output (CFD-ZW770 only)
20	ROCK	O	LED (ROCK) drive signal output (CFD-ZW770 only)
21	MANUAL	O	LED (MANUAL) drive signal output
22	TC1	I	Deck A tape play switch input
23	TC2	I	Deck B tape play switch input
24 – 27	KEY-1 – 4	I	Key input
28	VERSION	I	Tuner destination band select input
29	INT/SFT-CLK	O	Shift clock output
30	$\overline{\text{RST}}$	I	System reset input
31	EXTL	I	Oscillation input (4.19 MHz)
32	XTAL	O	Oscillation output (4.19 MHz)
33	VSS	—	GND
34	VL	O	LCD drive port ON/OFF output
35 – 37	VLC-3 – 1	O	LCD drive voltage terminal
38 – 41	COM0 – 3	O	LCD drive common output
42 – 64	SEG0 – 22	O	LCD drive segment output
65	VL2	O	LCD Bias control output
66	B-MUTE	O	Tuner mute signal output
67	R-LATCH	O	Tuner latch output
68	R-CLK	O	Tuner clock output
69	V-DATA/R-DATA	I	Tuner data input
70	V-LATCH	O	Graphic equalizer latch output
71	V-CLOCK	O	Graphic equalizer clock output
72	VDD	—	Power supply pin (+5 V)
73	TX	O	Oscillation output (32.768 kHz)
74	TXE	I	Oscillation input (32.768 kHz)
75	NC	—	Not used.
76	BL-CONT	O	LCD back light control signal
77	A-MUT	O	Audio mute output
78	REC	I	Tape record signal input
79	C-DOR	I	CD door open/close switch input
80	REGCK	I	Regulator check

5-2. CIRCUIT BOARDS LOCATION





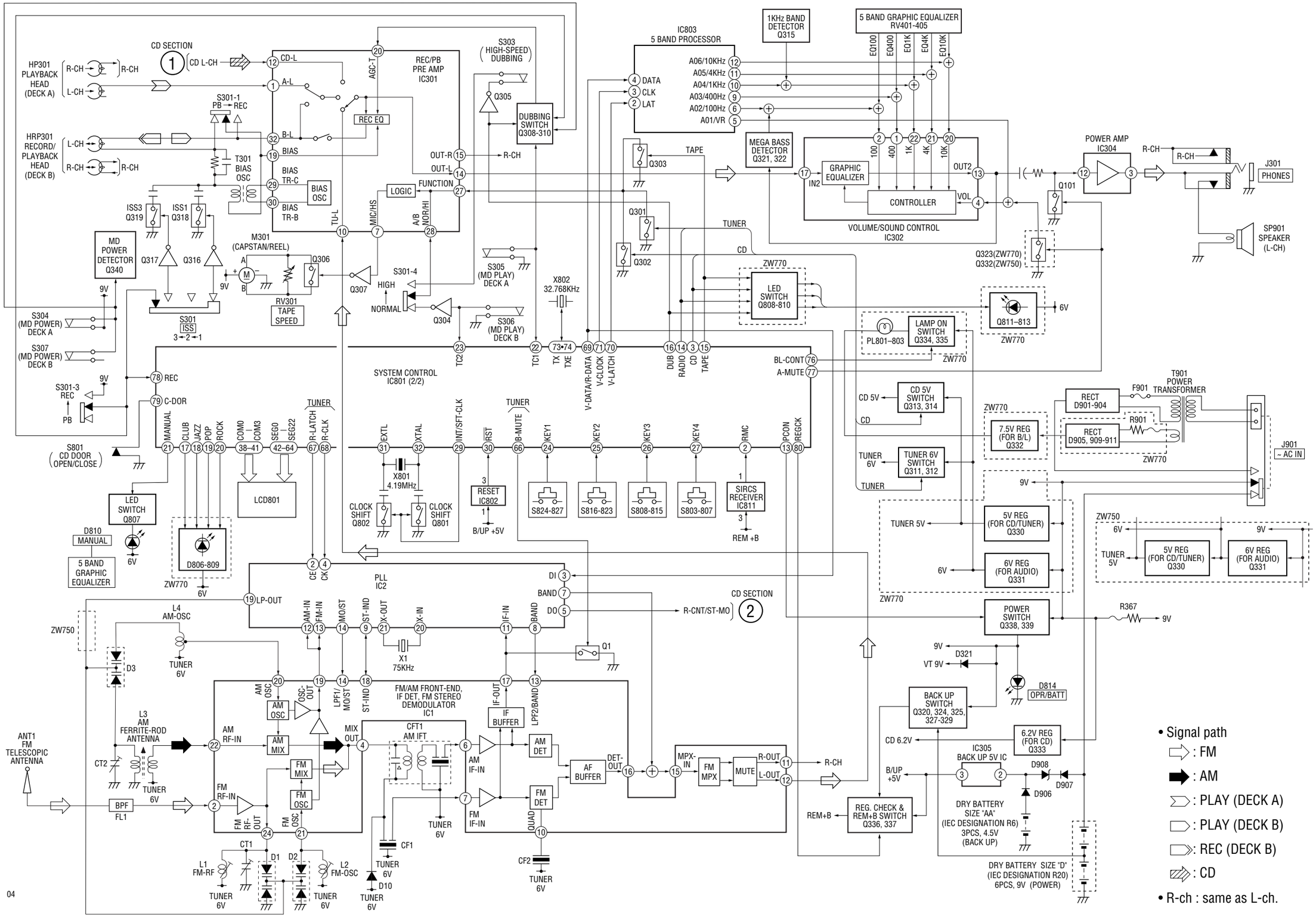
5-3. BLOCK DIAGRAM — CD SECTION —



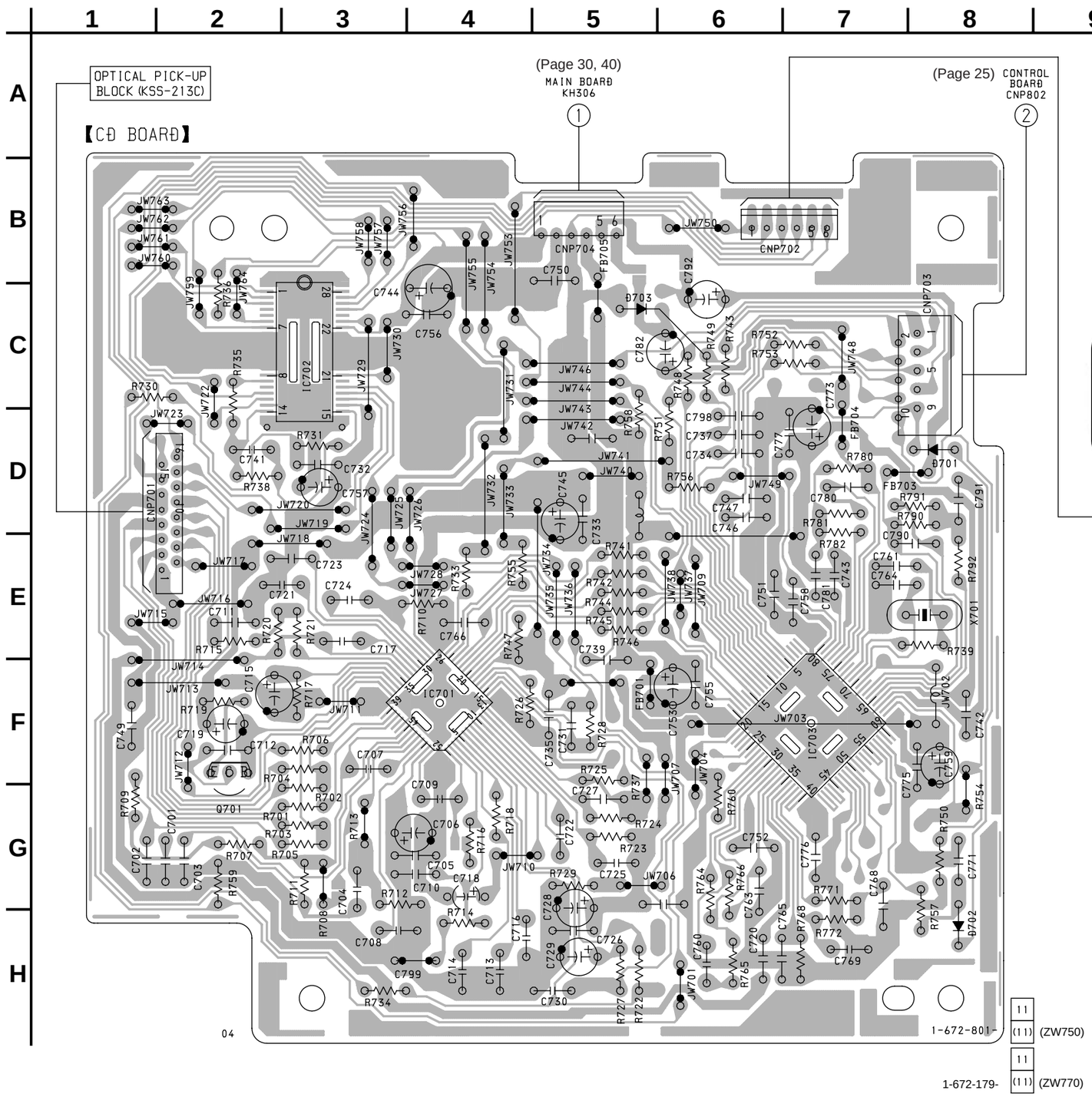
04

- Signal path
  ▨: CD
- R-ch : same as L-ch.

5-4. BLOCK DIAGRAM — MAIN SECTION —



5-5. PRINTED WIRING BOARDS — CD SECTION — (for CFD-ZW750/ZW770) • Refer to page 16 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D701	D-8
D702	H-8
D703	C-5
IC701	F-4
IC702	C-3
IC703	F-7
Q701	G-2

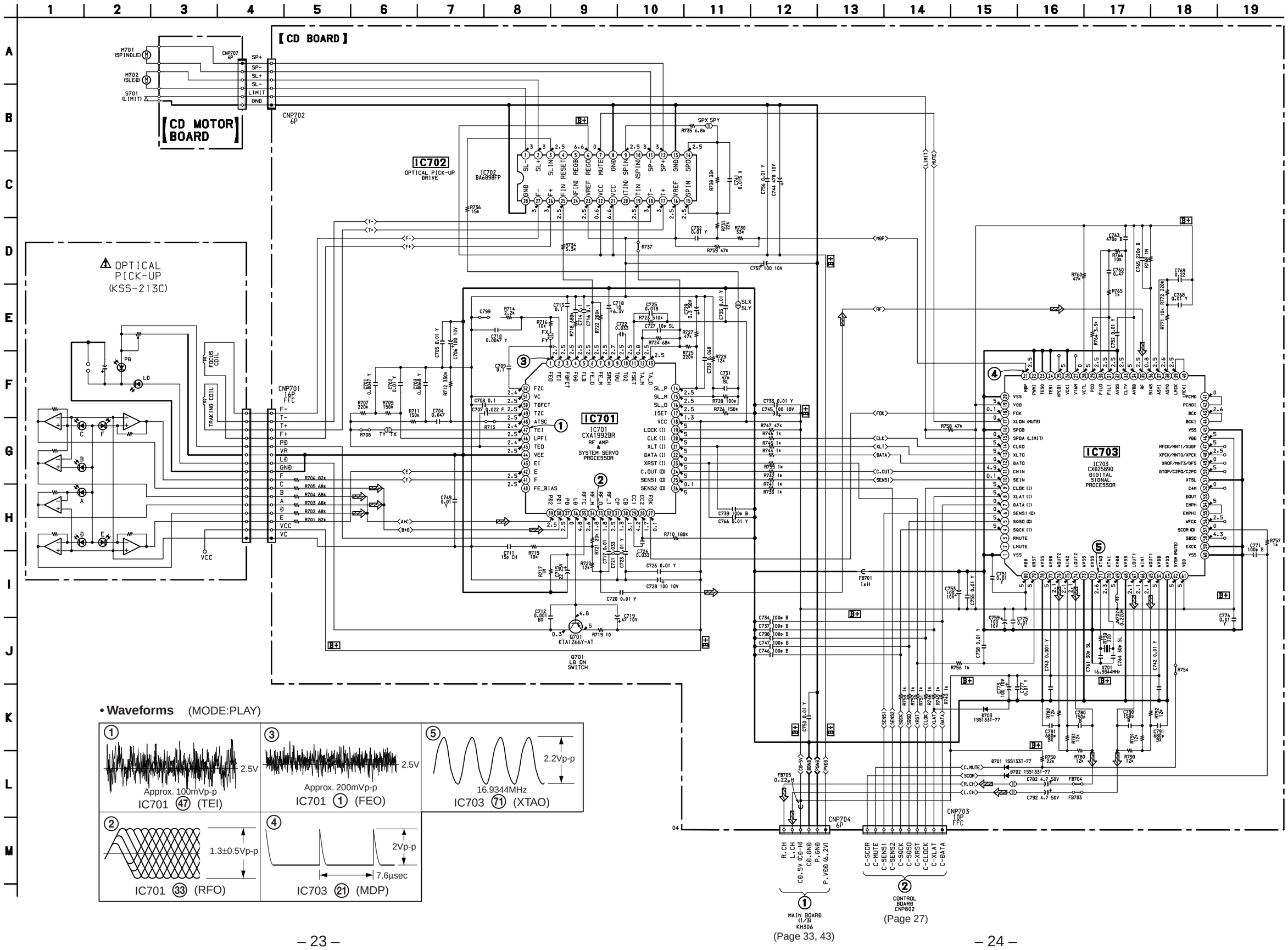
Note on Printed Wiring Boards:
- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

Note on Schematic Diagram:
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- B+ : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal condition.
  no mark : CD STOP
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

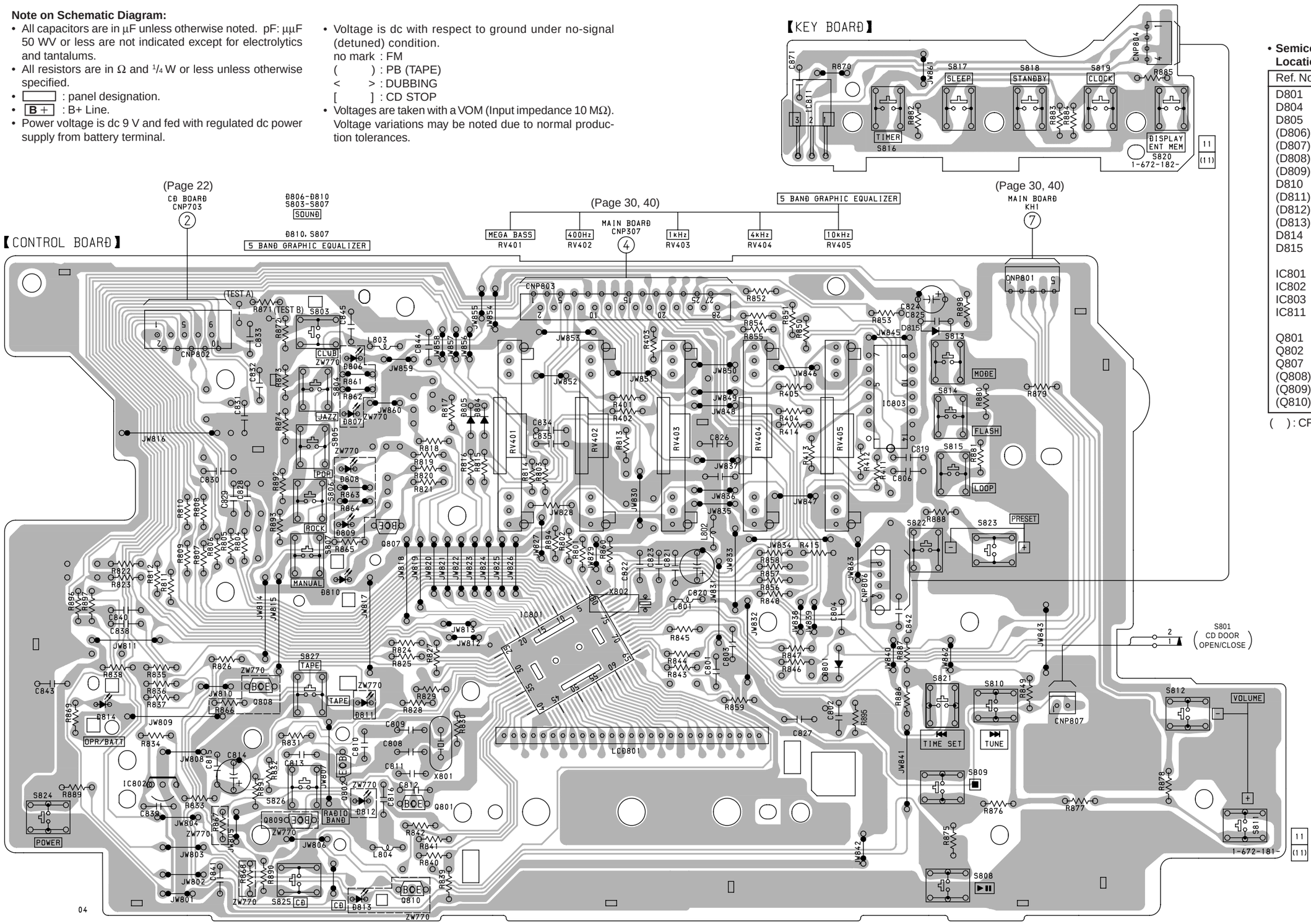
5-6. SCHEMATIC DIAGRAM — CD SECTION — (for CFD-ZW750/ZW770) • Refer to page 22 for Note on Schematic Diagram.
• Refer to page 51 for IC Block Diagrams.


【CD BOARD】
【CD MOTOR BOARD】
M701 (SPINDLE)
M702 (SLED)
S701 (LIMIT)
CNP707 6P
SP+
SP-
SL+
SL-
LIMIT
GND
CNP702 6P
IC702
OPTICAL PICK-UP DRIVE
IC702 BA6898FP
B+
SPX SPY
R735 6.8k
R736 15k
R737
R738 33k
R739 0.01 Y
R730 33k
R731 22k
R734 3.3k
R759 47k
C741 0.015 X
C744 470 10V
C755 0.01 Y
C757 100 10V
C758 0.01 Y
C759 0.01 Y
C760 0.47
C763 470 B
C765 220 B
C768 0.01 Y
C769 0.22
R760 47k
R764 10k
R765 1k
R764 3.3k
R771 10k
R772 220k
R758 47k
R756 1k
R757 1k
R754
R755 1k
R742 1k
R741 1k
R733 1k
R747 47k
R746 1k
R745 1k
R744 1k
R743 1k
R748 1k
R749 1k
R750 22k
R780 12k
R790 12k
R791 12k
R792 12k
R781 12k
C739 100 B
C766 0.01 Y
C739 100 B
C740 0.01 Y
C751 0.01 Y
C753 100 10V
C754 0.01 Y
C759 100 10V
C775 0.01 Y
C776 0.01 Y
C773 100 10V
C777 0.01 Y
C750 0.01 Y
C734 100 B
C737 100 B
C798 100 B
C747 100 B
C746 100 B
C743 0.001 Y
C742 0.01 Y
C761 30 SL
C764 30 SL
X701 16.9344MHz
C752 0.01 Y
C745 0.01 Y
C733 0.01 Y
C745 100 10V
C731 47 SL
C730 0.018
C729 1.2k
C728 100 10V
C726 0.01 Y
C720 0.01 Y
C724 0.033
C725 0.018
C727 10 SL
C722 0.033
C735 0.01 Y
C778 3.3 50V
C718 10 6.3V
C717 0.1
C716 0.1
C714 0.1
C715 0.1
C719 0.0047 Y
C799 0.1
C709 0.1
C705 0.01 Y
C706 100 10V
C708 0.1
C707 0.022 F
C713 0.1
C712 0.001 BX
C711 150 CH
C721 0.033
C723 0.01 Y
C717 0.01
C722 0.01 Y
C735 0.01 Y
C730 0.018
C729 1.2k
C731 47 SL
C733 0.01 Y
C745 100 10V

5-7. PRINTED WIRING BOARDS — CONTROL SECTION — (for CFD-ZW750/ZW770) • Refer to page 16 for Circuit Boards Location.

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : PB (TAPE)
  < > : DUBBING
  [ ] : CD STOP
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.



• Semiconductor Location

Ref. No.	Location
D801	G-9
D804	E-5
D805	E-5
(D806)	D-4
(D807)	E-4
(D808)	E-4
(D809)	F-4
D810	F-4
(D811)	H-4
(D812)	I-4
(D813)	I-4
D814	H-2
D815	D-10
IC801	G-6
IC802	H-2
IC803	E-9
IC811	H-2
Q801	I-5
Q802	H-4
Q807	F-5
(Q808)	H-3
(Q809)	I-4
(Q810)	I-5

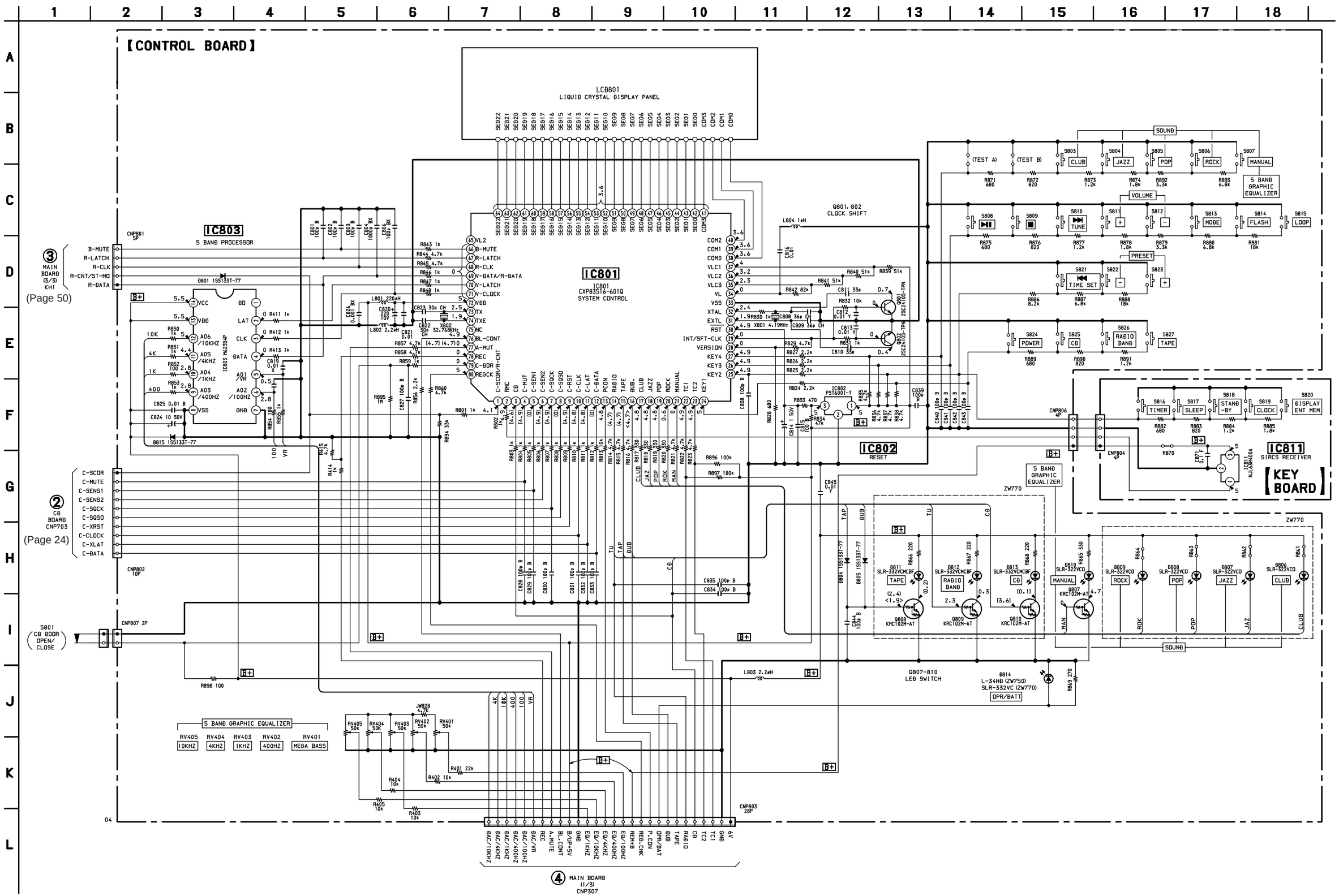
( ) : CFD-ZW770 only

Note on Printed Wiring Boards:

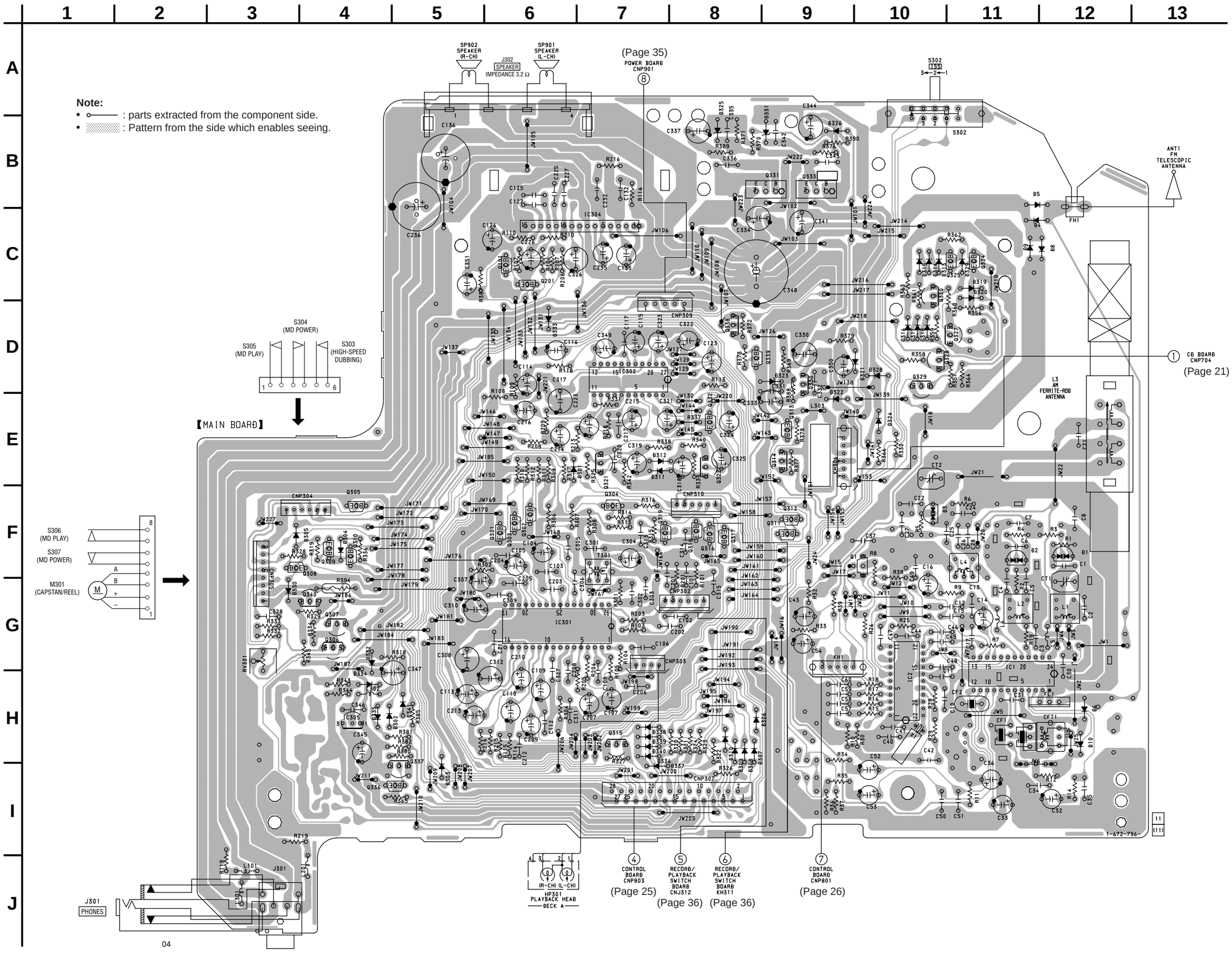
- ○——— : parts extracted from the component side.
- ▒▒▒ : Pattern from the side which enables seeing.

5-8. SCHEMATIC DIAGRAM — CONTROL SECTION — (for CFD-ZW750/ZW770)

• Refer to page 25 for Note on Schematic Diagram.
• Refer to page 53 for IC Block Diagrams.



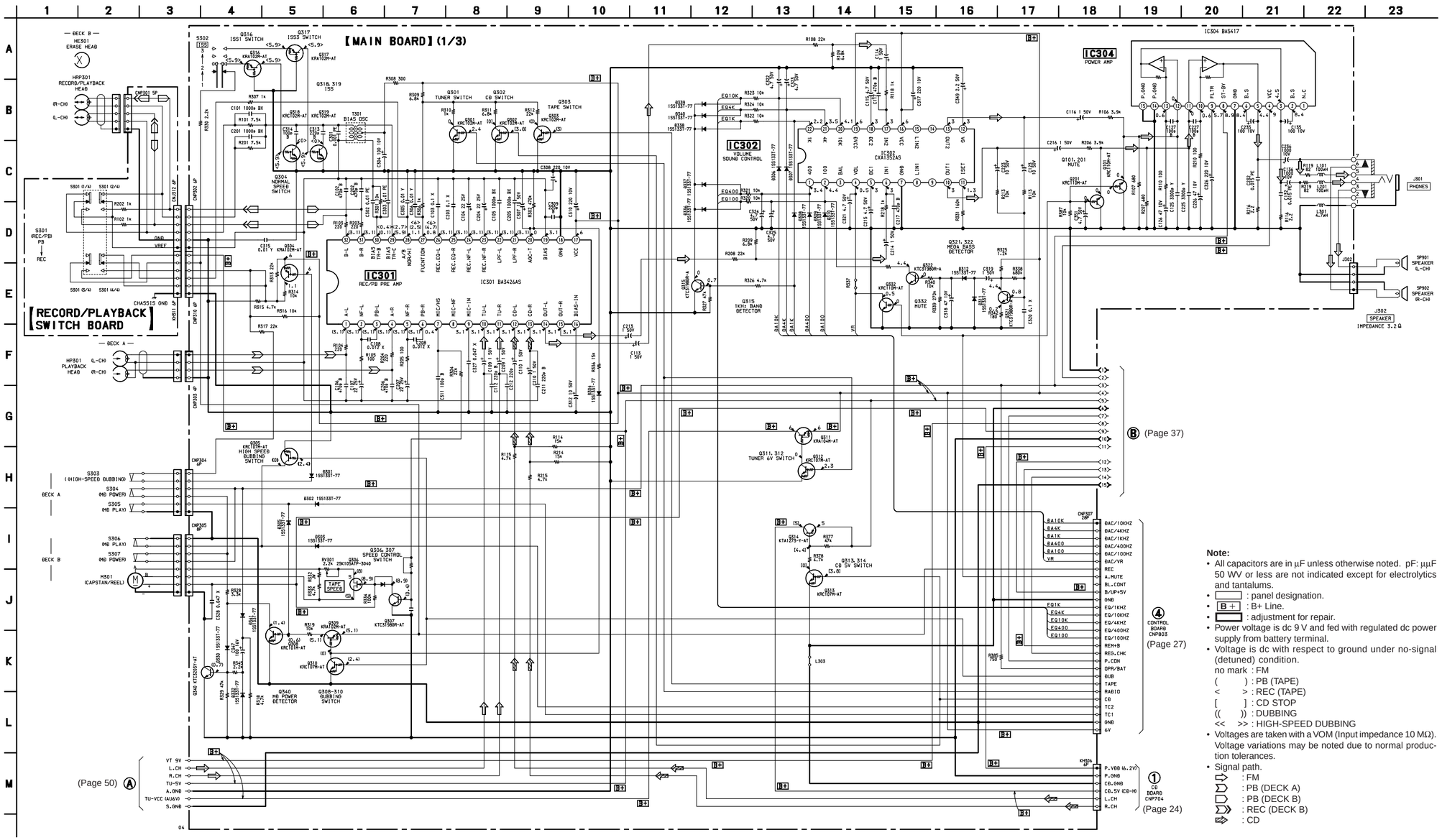
5-9. PRINTED WIRING BOARD — MAIN SECTION — (for CFD-ZW750) • Refer to page 16 for Circuit Boards Location.



5-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — (for CFD-ZW750) • Refer to page 53 for IC Block Diagrams.

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1	F-12	IC1	H-11
D2	F-12	IC2	H-10
D3	F-11	IC301	G-6
D4	C-12	IC302	D-7
D5	B-12	IC304	C-7
D6	H-12	IC305	H-4
D8	C-12		
D9	C-12	Q1	F-10
D10	H-12	Q101	C-6
D301	E-7	Q201	C-6
D302	H-5	Q301	F-6
D303	I-5	Q302	F-6
D304	F-4	Q303	F-6
D305	F-4	Q304	F-7
D306	H-9	Q305	F-4
D307	H-9	Q306	G-4
D308	H-9	Q307	G-4
D309	H-8	Q308	F-4
D310	H-8	Q309	F-4
D311	E-8	Q310	F-4
D312	E-8	Q311	F-9
D313	C-11	Q312	F-9
D314	C-11	Q313	E-9
D315	C-10	Q314	E-9
D316	D-10	Q315	H-7
D317	D-10	Q316	F-8
D318	D-11	Q317	F-8
D319	C-11	Q318	F-8
D320	C-11	Q319	F-8
D321	D-10	Q320	C-11
D322	D-10	Q321	E-7
D323	D-9	Q322	E-8
D324	E-10	Q324	C-11
D325	B-8	Q325	C-11
D326	B-10	Q327	D-11
D328	D-10	Q328	D-11
D330	G-4	Q329	D-11
D331	B-9	Q330	D-9
D332	G-5	Q331	B-9
D333	D-6	Q332	E-8
D334	H-4	Q333	B-9
D335	H-5	Q336	I-5
D336	H-8	Q337	I-5
D337	I-8	Q338	D-8
D338	H-8	Q339	D-9
D339	H-8	Q340	G-4
D340	H-8		
D341	H-5		



Note:

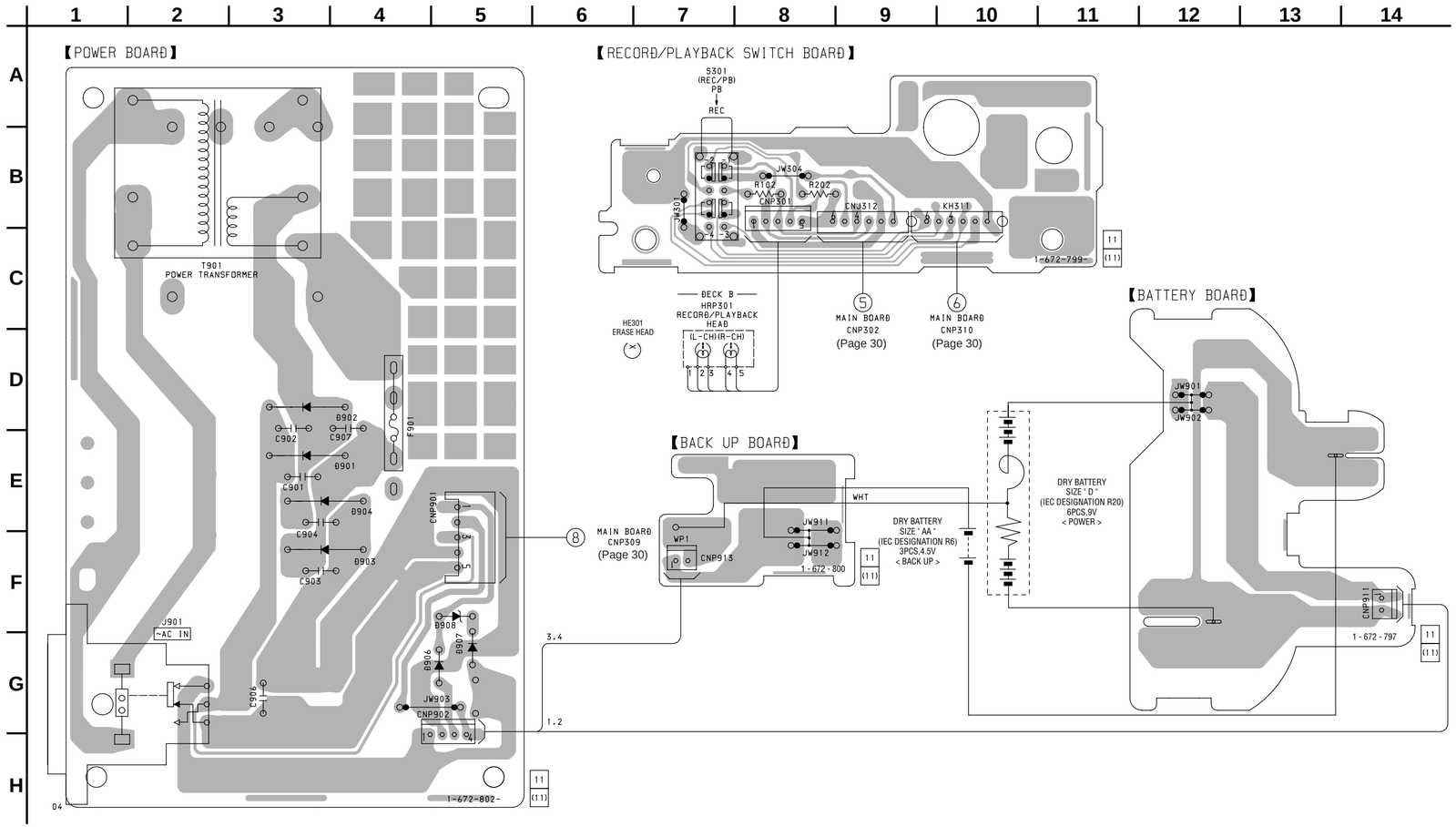
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- : panel designation.
- B+ : B+ Line.
- : adjustment for repair.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : PB (TAPE)
  < > : REC (TAPE)
  [ ] : CD STOP
  (( )) : DUBBING
  << >> : HIGH-SPEED DUBBING
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : FM
  : PB (DECK A)
  : PB (DECK B)
  : REC (DECK B)
  : CD

5-11. PRINTED WIRING BOARDS — POWER SUPPLY SECTION — (for CFD-ZW750) • Refer to page 16 for Circuit Boards Location.

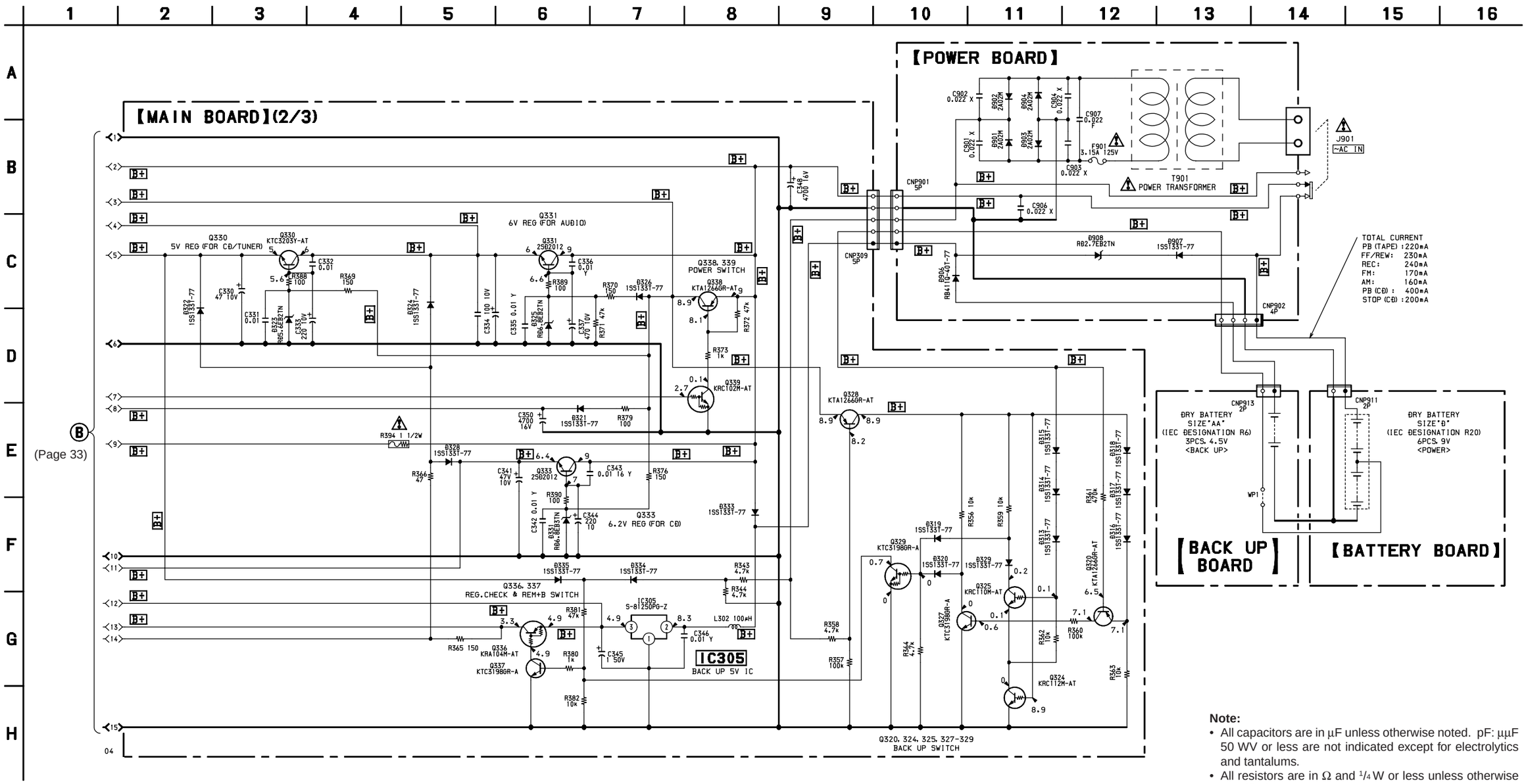
• **Semiconductor Location**

Ref. No.	Location
D901	E-4
D902	D-4
D903	F-4
D904	E-4
D906	G-5
D907	G-5
D908	G-5

Note:
• ⟜——: parts extracted from the component side.
• ▒▒▒: Pattern from the side which enables seeing.



5-12. SCHEMATIC DIAGRAM — POWER SUPPLY SECTION — (for CFD-ZW750)



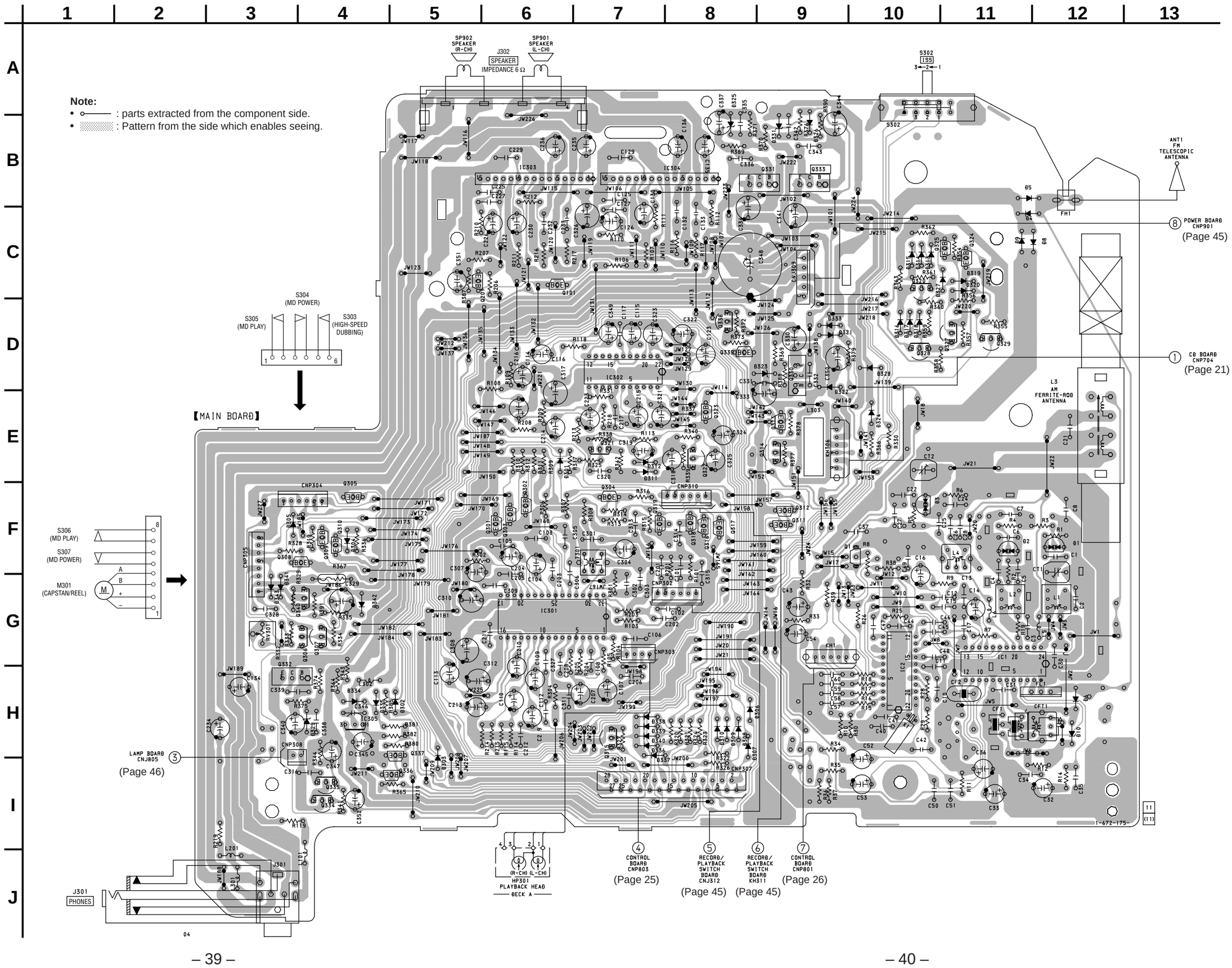
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ⏦ : fusible resistor.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- B+ : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

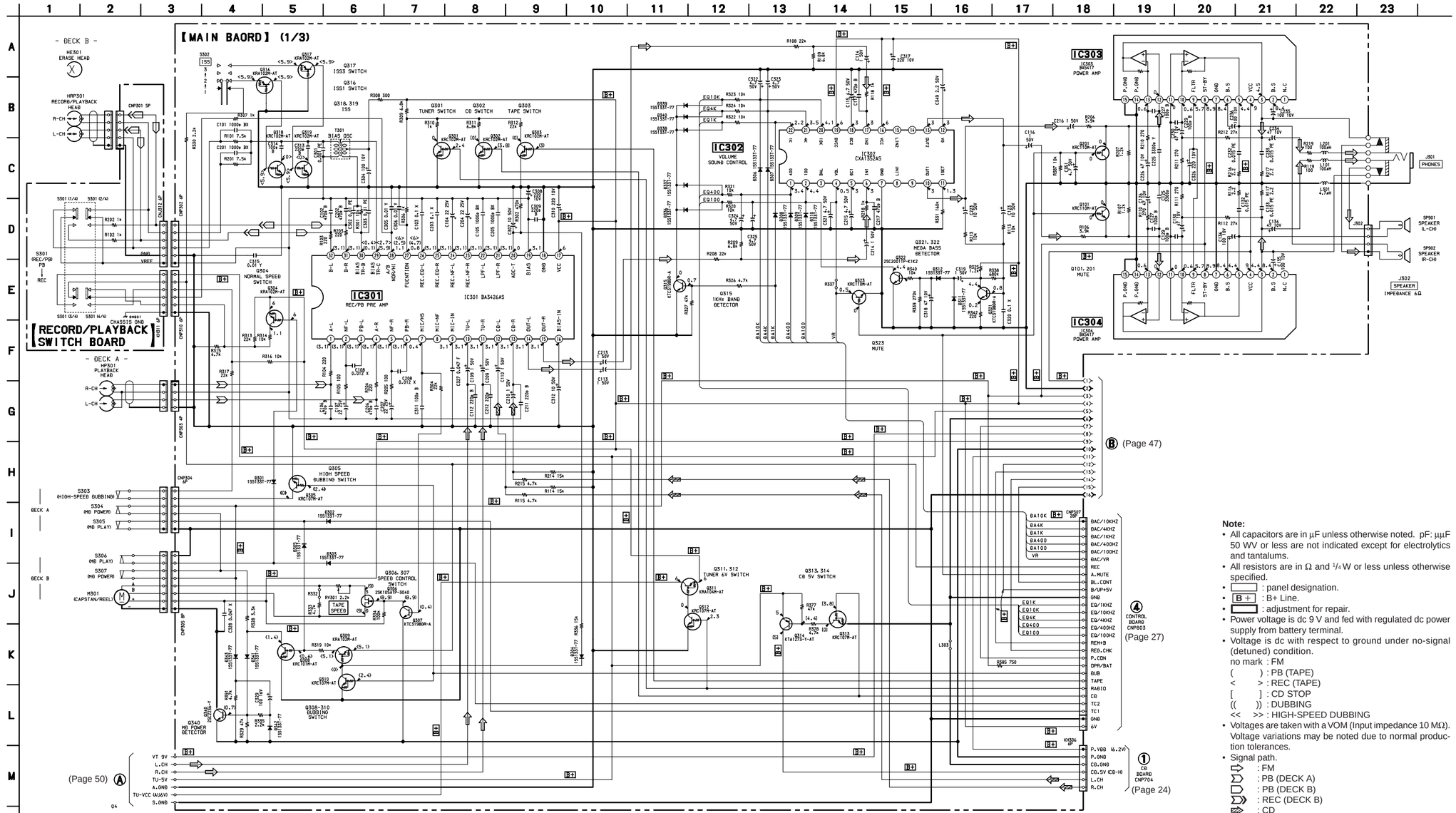
5-13. PRINTED WIRING BOARD — MAIN SECTION — (for CFD-ZW770) • Refer to page 16 for Circuit Boards Location.


Note:
• ——— : parts extracted from the component side.
• ▒▒▒ : Pattern from the side which enables seeing.
SP902 SPEAKER (R-CH)
SP901 SPEAKER (L-CH)
J302 SPEAKER IMPEDANCE 6 Ω
S302 ISS
ANT1 FM TELESCOPIC ANTENNA
FH1
8 POWER BOARD CNP901 (Page 45)
1 CB BOARD CNP704 (Page 21)
L3 AM FERRITE-ROD ANTENNA
S304 (MD POWER)
S305 (MD PLAY)
S303 (HIGH-SPEED DUBBING)
【MAIN BOARD】
S306 (MD PLAY)
S307 (MD POWER)
M301 (CAPSTAN/REEL)
LAMP BOARD CNJ805 3 (Page 46)
J301 PHONES
HP301 PLAYBACK HEAD BECK A (R-CH) (L-CH)
4 CONTROL BOARD CNP803 (Page 25)
5 RECORD/ PLAYBACK SWITCH BOARD CNJ312 (Page 45)
6 RECORD/ PLAYBACK SWITCH BOARD KH311 (Page 45)
7 CONTROL BOARD CNP801 (Page 26)
1-672-175-11 (11)

5-14. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — (for CFD-ZW770) • Refer to page 53 for IC Block Diagrams.

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1	F-12	IC1	H-11
D2	F-12	IC2	H-10
D3	F-11	IC301	G-6
D4	B-12	IC302	D-7
D5	B-12	IC303	B-6
D6	H-12	IC304	B-8
D8	C-12	IC305	H-4
D9	C-12		
D10	H-12	Q1	F-10
D301	E-7	Q101	C-7
D302	H-5	Q201	C-6
D303	I-5	Q301	F-6
D304	F-4	Q302	F-6
D305	F-4	Q303	F-6
D306	H-9	Q304	F-7
D307	H-9	Q305	F-4
D308	H-9	Q306	G-4
D309	H-8	Q307	G-4
D310	H-8	Q308	F-4
D311	E-8	Q309	F-4
D312	E-8	Q310	F-4
D313	C-11	Q311	F-9
D314	C-11	Q312	F-9
D315	C-10	Q313	E-9
D316	D-10	Q314	E-9
D317	D-10	Q315	H-7
D318	D-10	Q316	H-8
D319	C-11	Q317	H-8
D320	C-11	Q318	F-8
D321	D-10	Q319	F-8
D322	D-10	Q320	C-11
D323	D-9	Q321	E-7
D324	E-10	Q322	E-8
D325	B-8	Q323	E-8
D326	B-9	Q324	C-11
D327	C-11	Q325	C-11
D328	D-10	Q327	D-11
D329	H-4	Q328	D-11
D331	B-9	Q329	D-11
D333	D-10	Q330	D-9
D334	H-4	Q331	B-9
D335	H-5	Q332	H-4
D336	I-8	Q333	B-9
D337	I-8	Q334	I-4
D338	H-8	Q335	I-4
D339	H-8	Q336	I-5
D340	H-8	Q337	I-5
D341	G-4	Q338	D-8
D342	G-4	Q339	D-9
D343	G-3	Q340	G-4



Note:

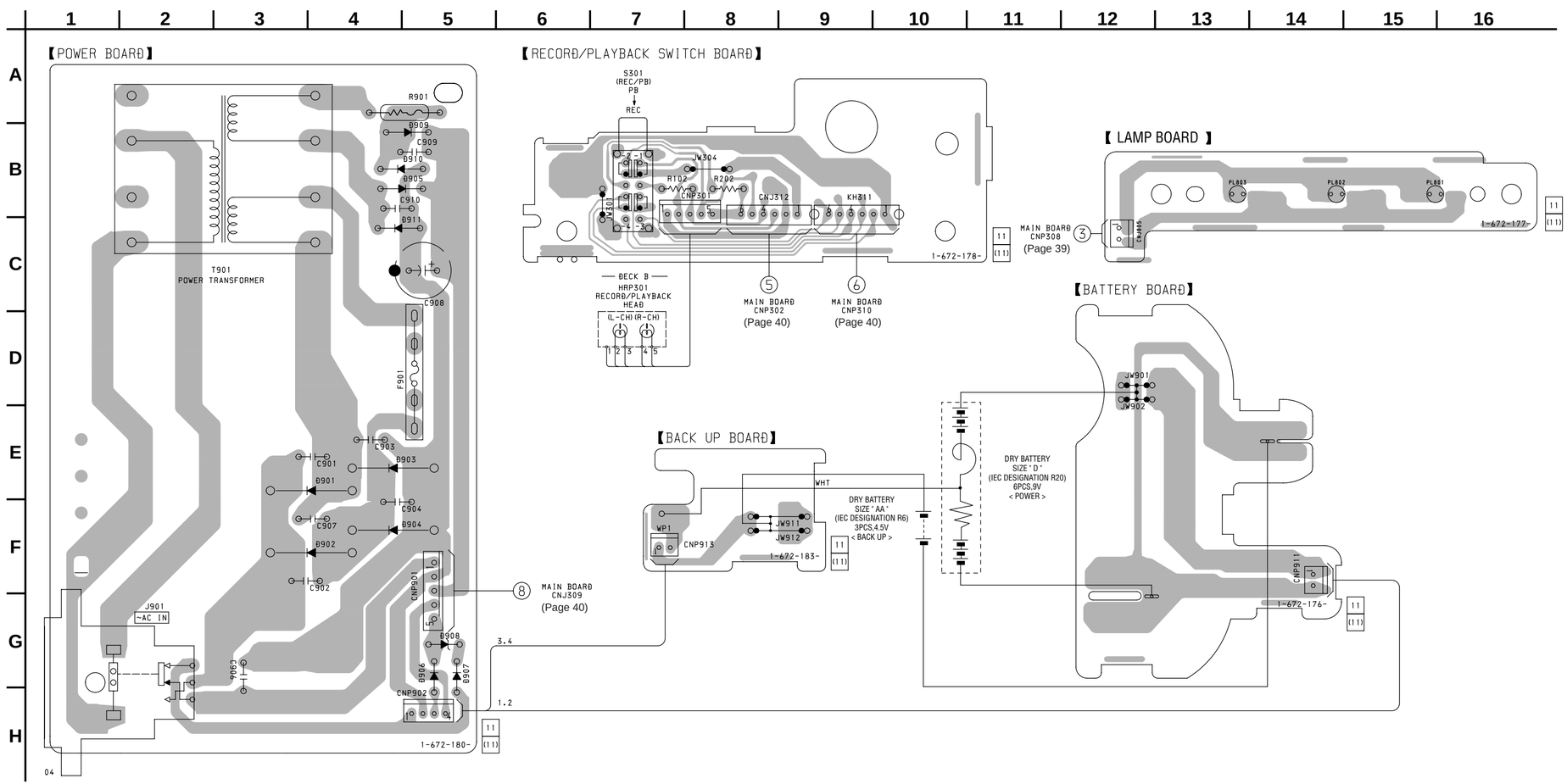
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : PB (TAPE)
  < > : REC (TAPE)
  [ ] : CD STOP
  (( )) : DUBBING
  << >> : HIGH-SPEED DUBBING
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : PB (DECK A)
  ⇨ : PB (DECK B)
  ⇨ : REC (DECK B)
  ⇨ : CD

5-15. PRINTED WIRING BOARDS — POWER SUPPLY SECTION — (for CFD-ZW770) • Refer to page 16 for Circuit Boards Location.

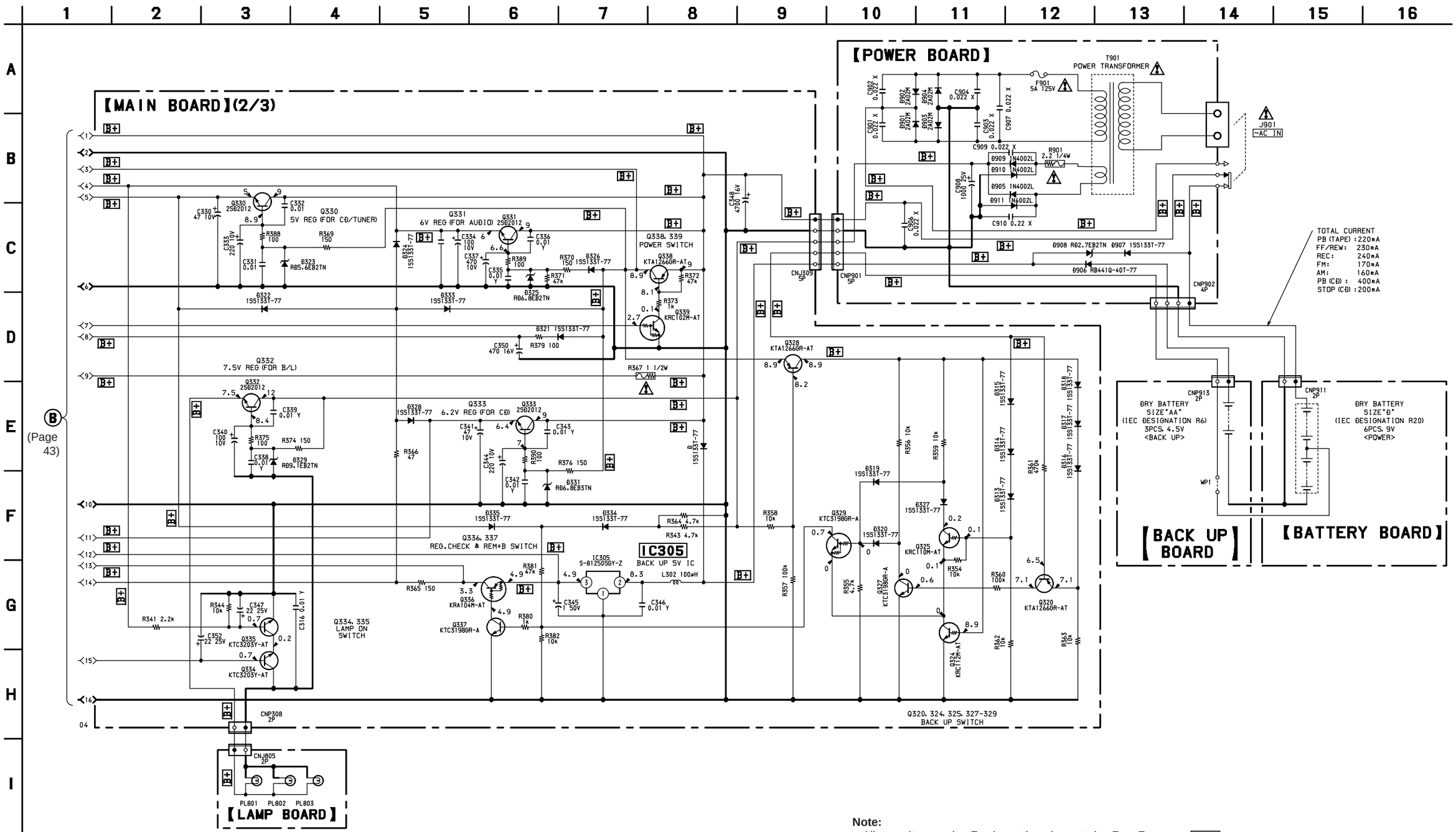
• **Semiconductor Location**

Ref. No.	Location
D901	E-4
D902	F-4
D903	E-4
D904	F-4
D905	B-5
D906	G-5
D907	G-5
D908	G-5
D909	B-5
D910	B-5
D911	B-5

Note:
• ⟜——: parts extracted from the component side.
• ▒▒▒: Pattern from the side which enables seeing.



5-16. SCHEMATIC DIAGRAM — POWER SUPPLY SECTION — (for CFD-ZW770)



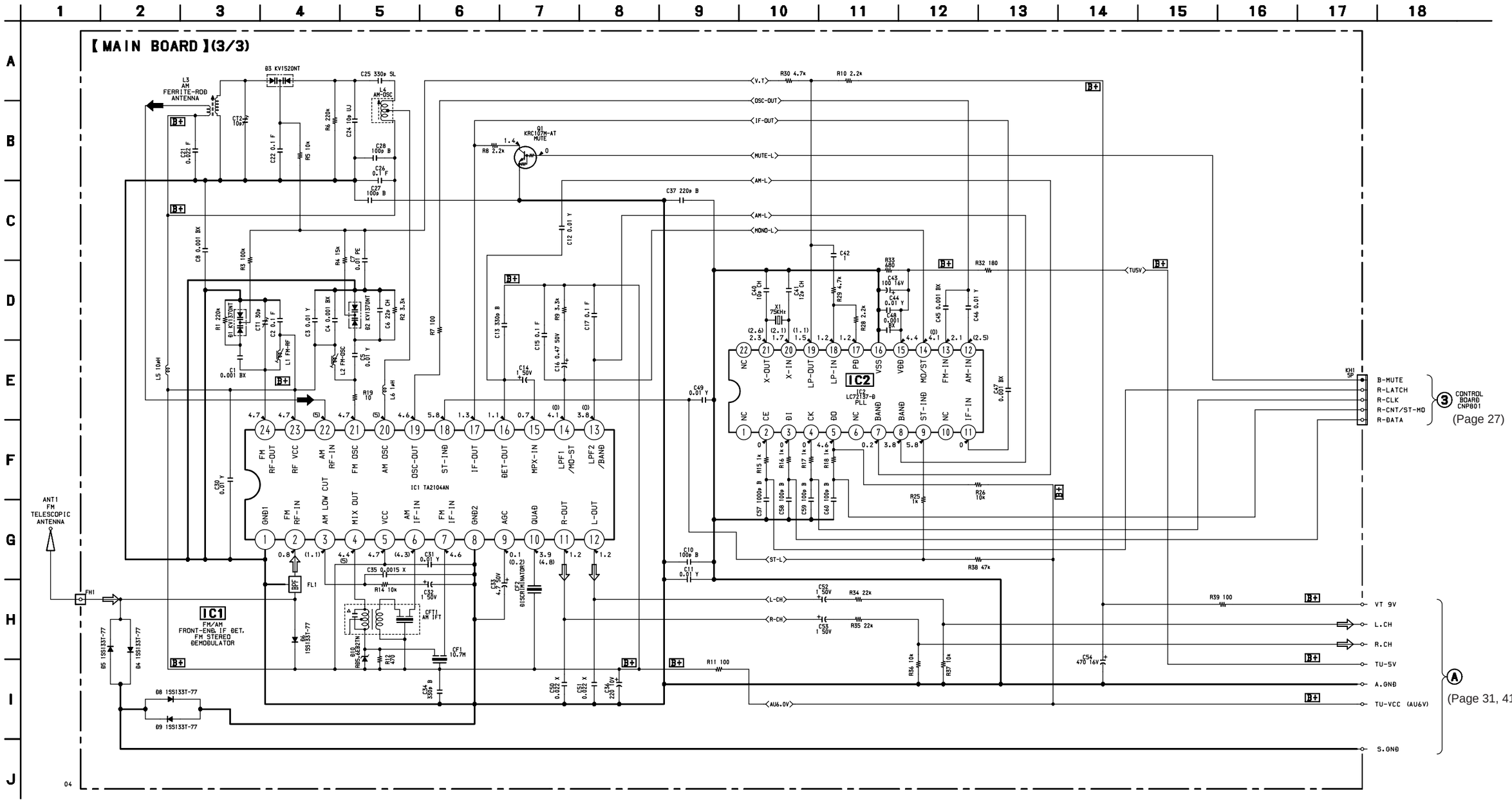
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : fusible resistor.
- : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- B+ : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

5-17. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — (for CFD-ZW750/ZW770) • Refer to page 54 for IC Block Diagrams.

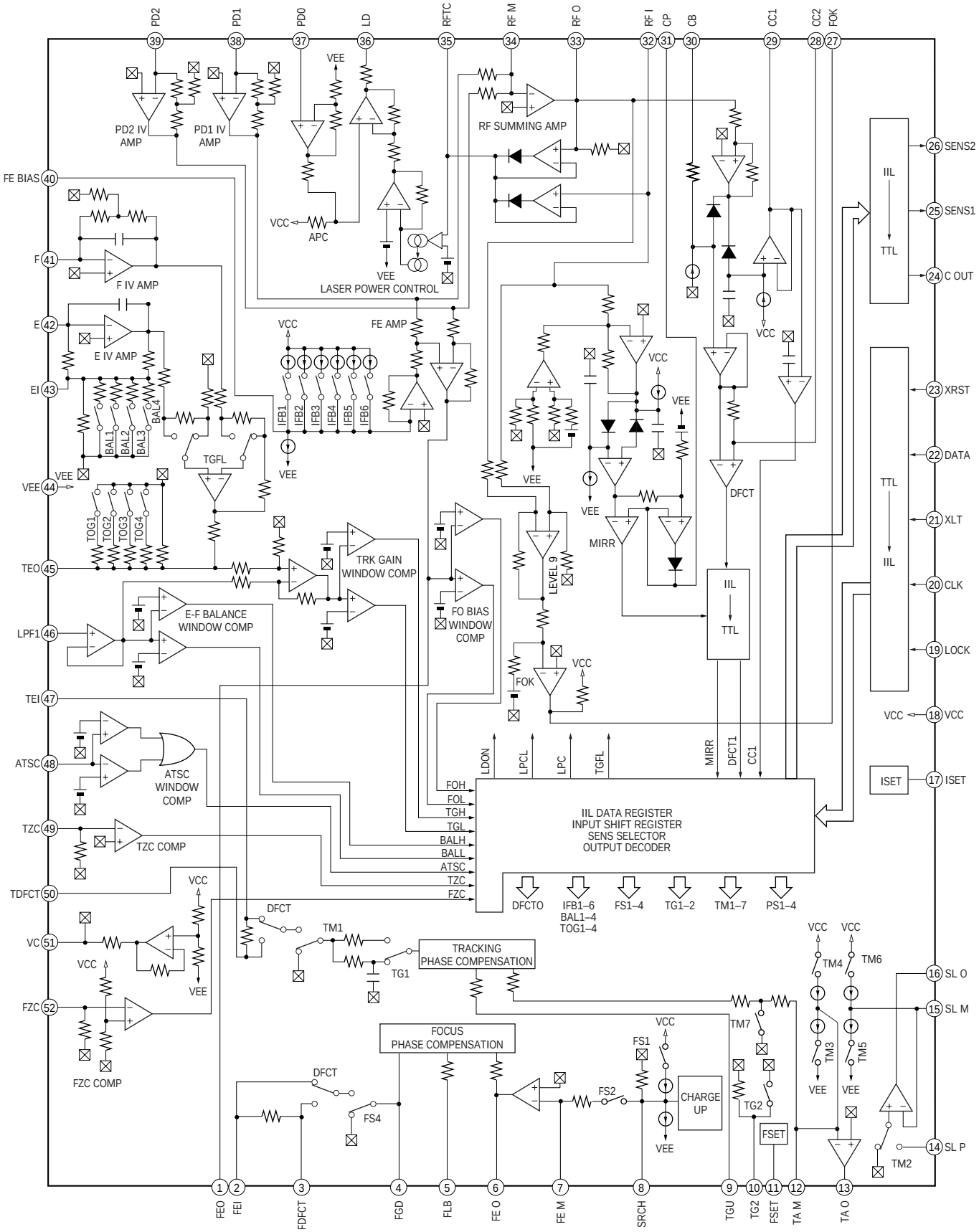


Note:

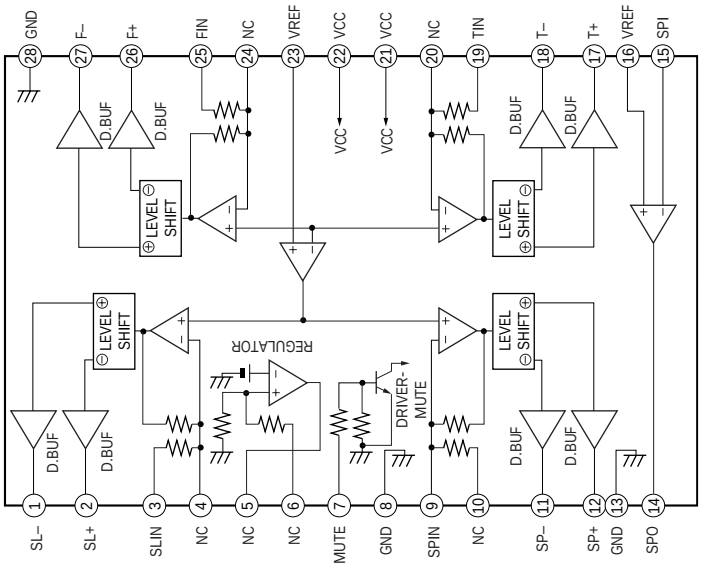
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- B + : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ➡ : AM

• **IC Block Diagrams**

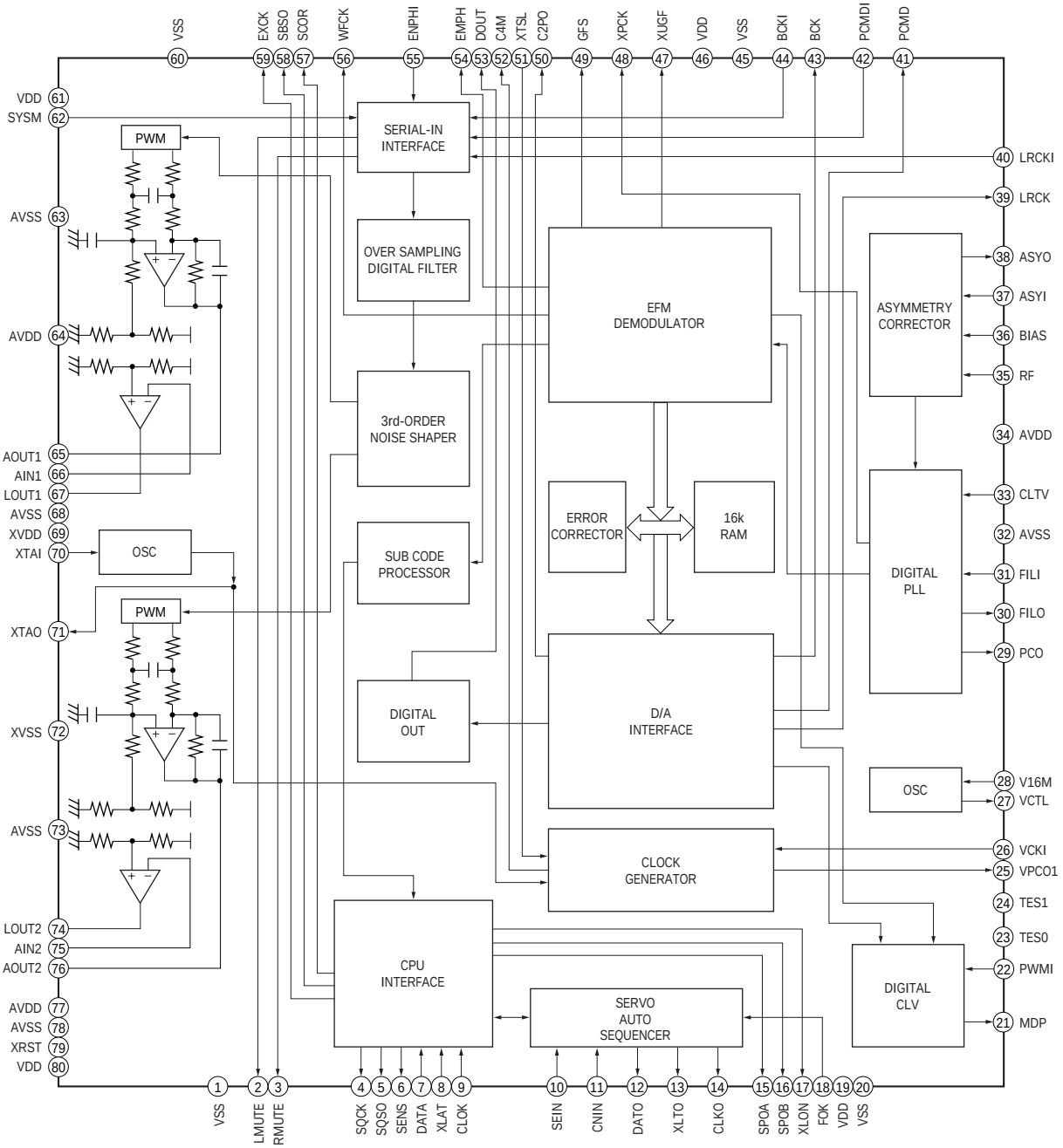
IC701 CXA1992BR



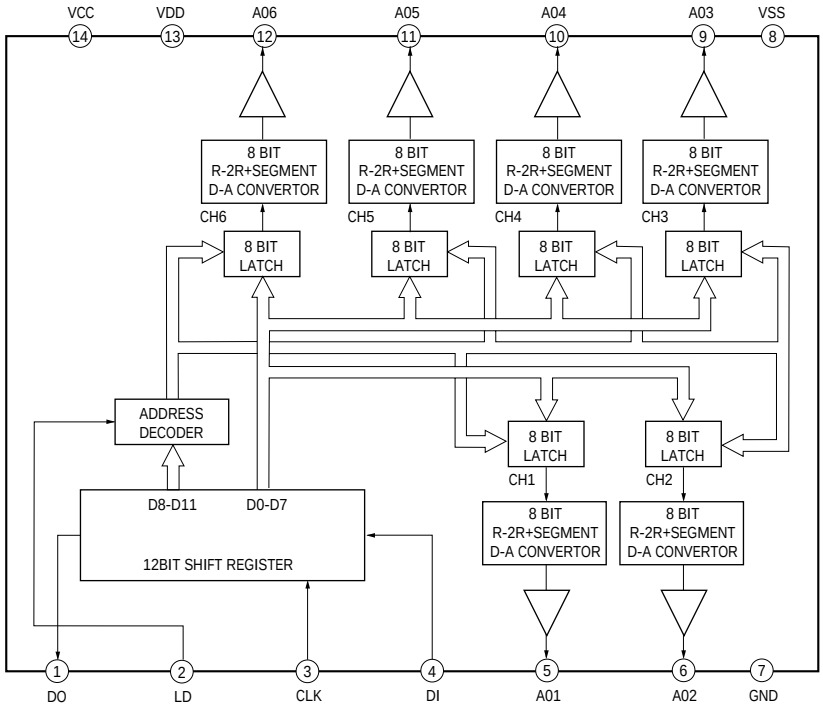
IC702 BA6898FP



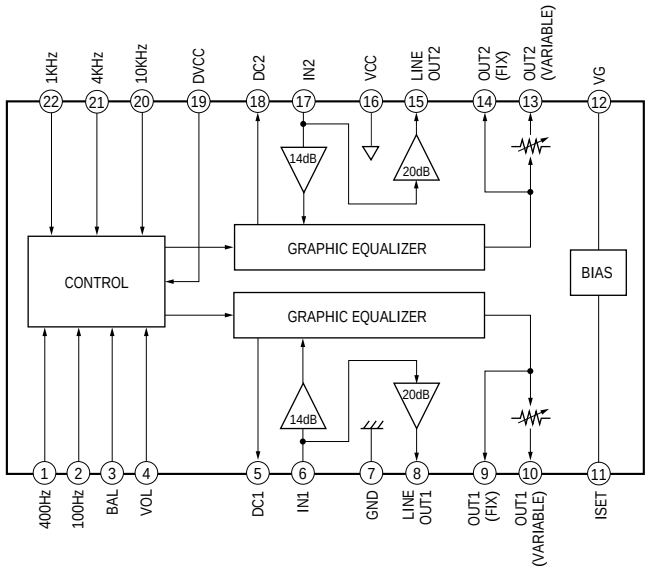
IC703 CXD2589Q



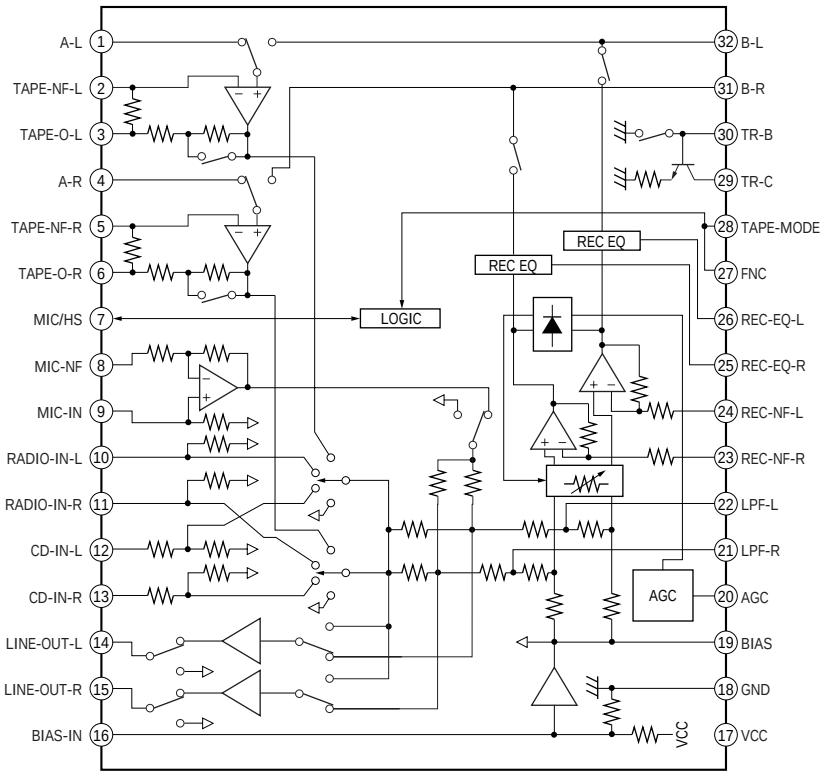
IC803 M62354P



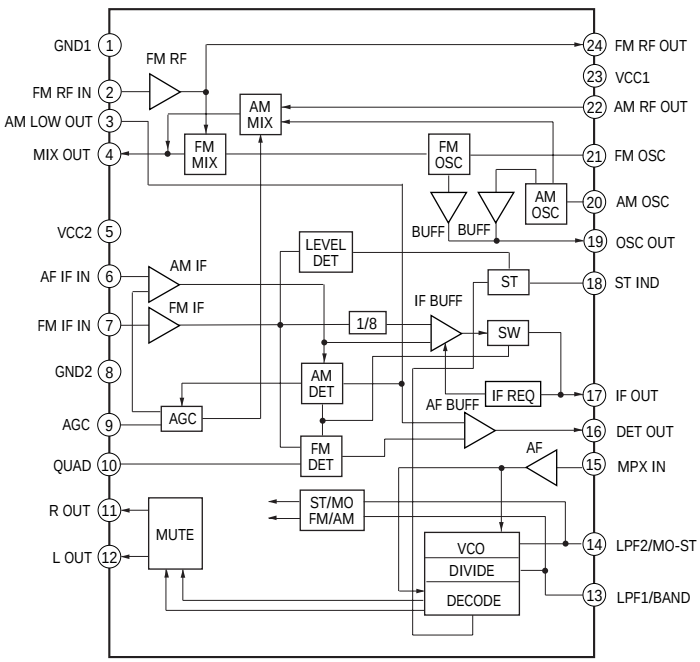
IC302 CXA1352AS



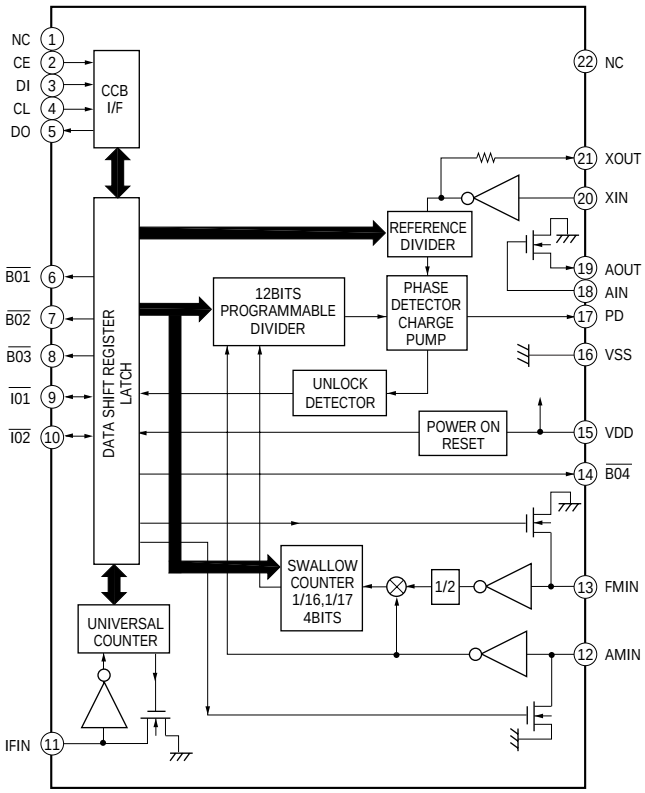
IC301 BA3426AS



IC1 TA2104AN



IC2 LC72137-D



SECTION 6
EXPLODED VIEWS

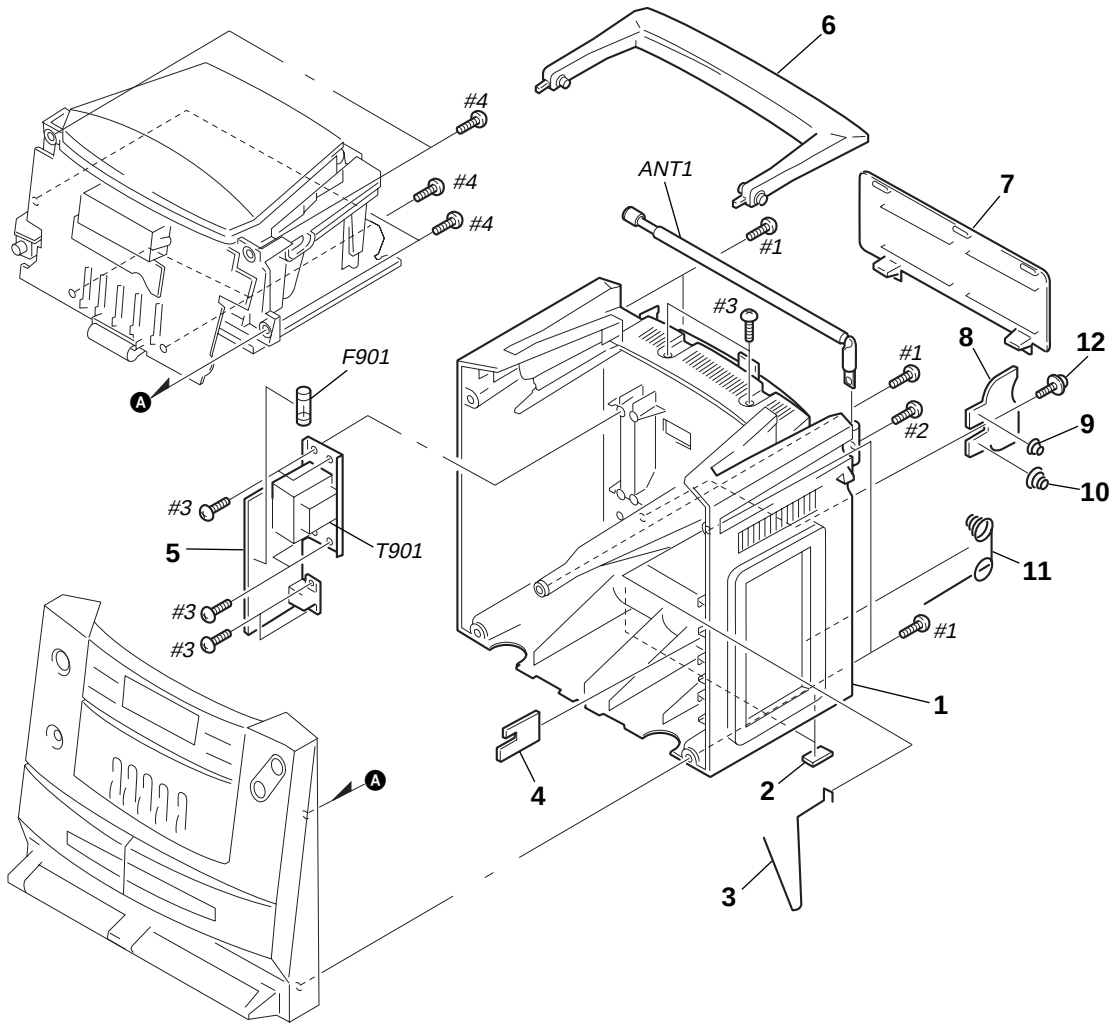
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

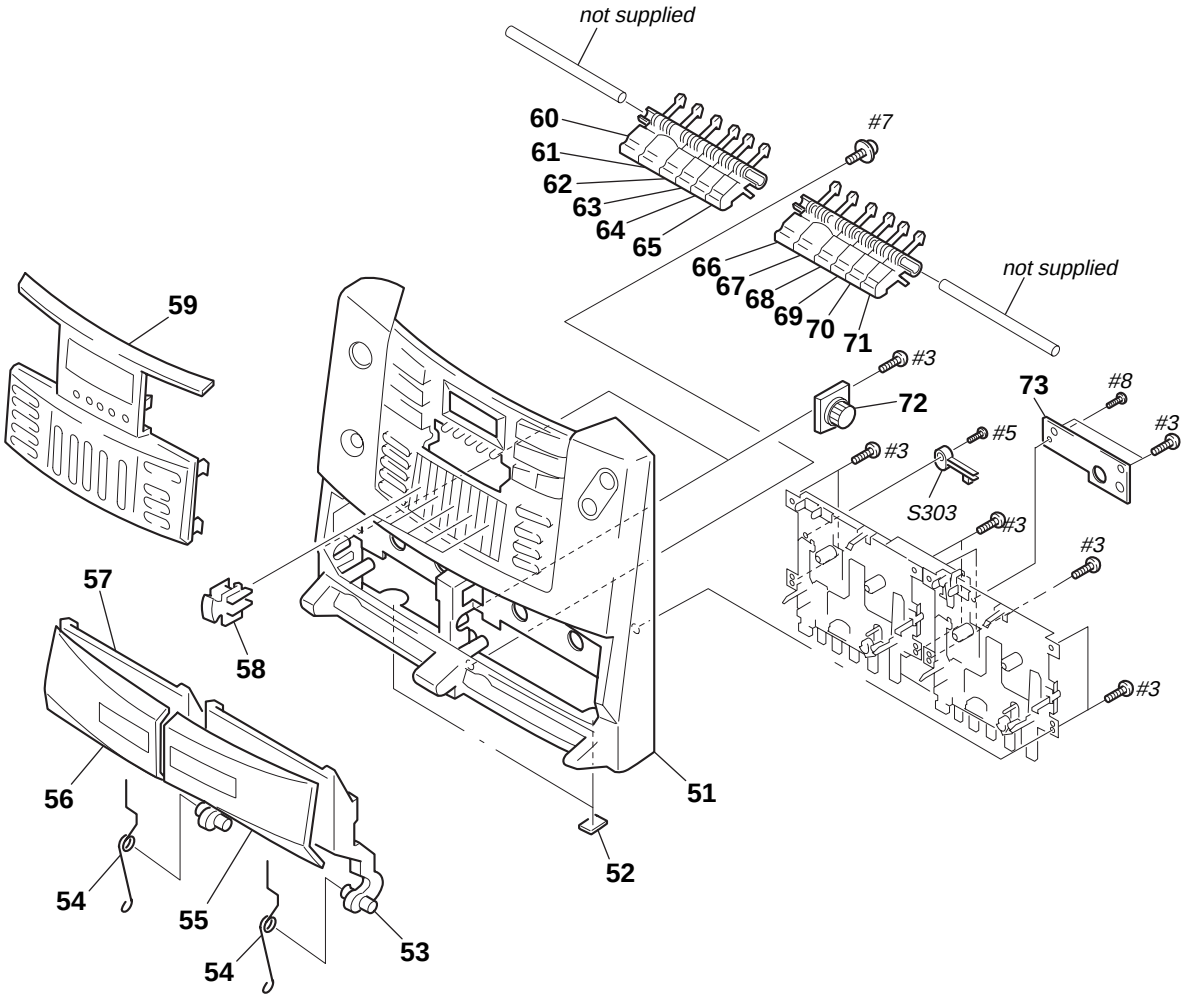
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

6-1. REAR CABINET SECTION



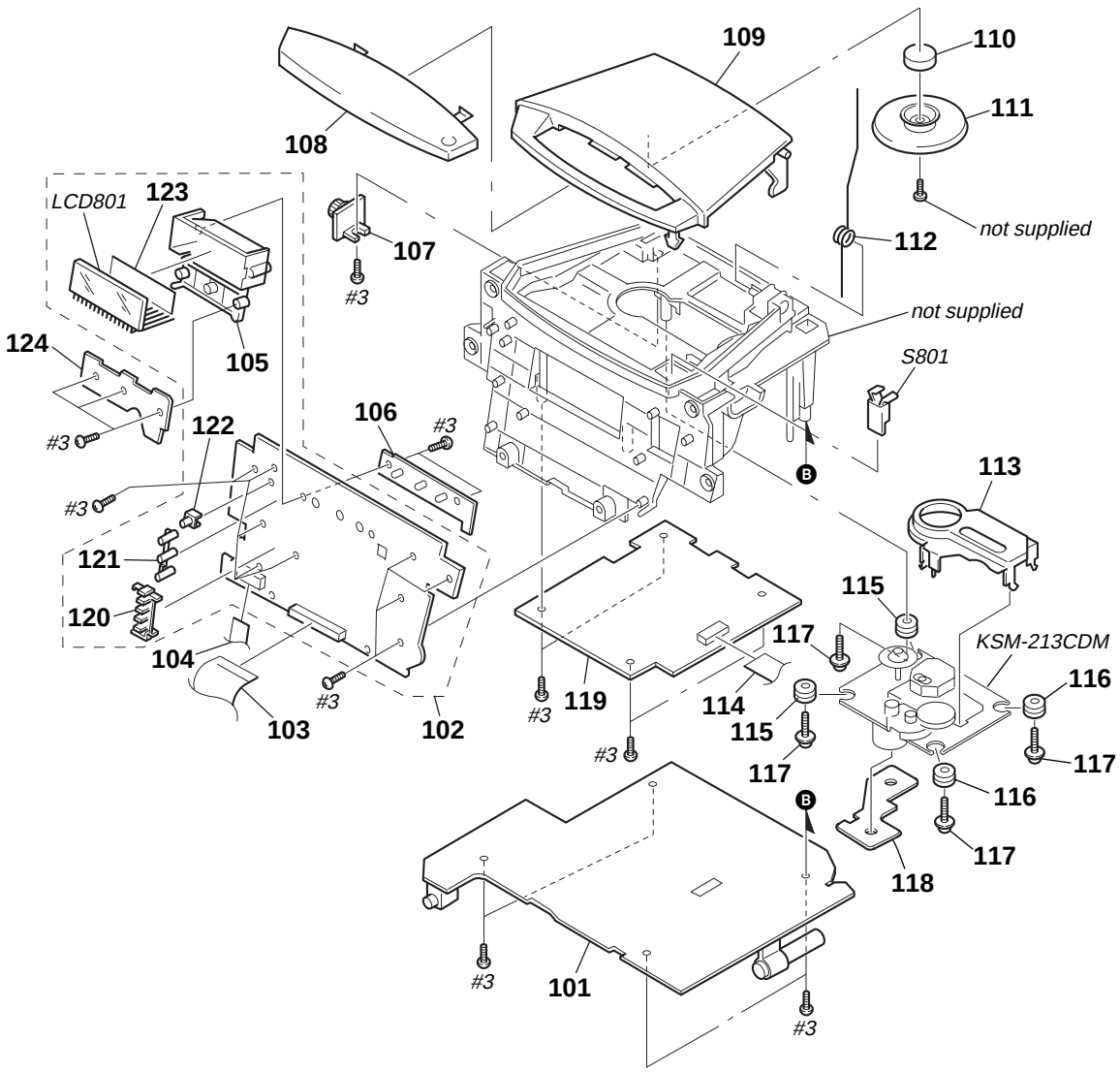
Ref. No.	Part No.	Description	Remark
1	3-031-134-01	CABINET (REAR) (ZW770:US)	
1	3-031-134-11	CABINET (REAR) (ZW770:Canadian)	
1	3-031-134-41	CABINET (REAR) (ZW750:US)	
1	3-031-134-51	CABINET (REAR) (ZW750:Canadian)	
2	3-031-182-01	RUBBER	
3	3-031-183-01	TERMINAL, ANTENNA	
* 4	1-672-183-11	BACK UP BOARD (ZW770)	
* 4	1-672-800-11	BACK UP BOARD (ZW750)	
* 5	1-672-180-11	POWER BOARD (ZW770)	
* 5	1-672-802-11	POWER BOARD (ZW750)	
6	3-031-138-01	HANDLE	
7	3-918-472-11	LID, BATTERY CASE	
* 8	1-672-176-11	BATTERY BOARD (ZW770)	
* 8	1-672-797-11	BATTERY BOARD (ZW750)	
9	3-031-172-01	SPRING, BACK UP	
10	3-031-171-01	SPRING (–), BATTERY	
11	3-032-886-01	SPRING, BATTERY TERMINAL COIL	
12	4-981-789-11	BRACKET (2), YOKE	
ANT1	1-501-383-21	ANTENNA, TELESCOPIC	
⚠ F901	1-576-107-11	FUSE (3.15A/125V) (ZW750)	
⚠ F901	1-576-109-11	FUSE (5A/125V) (ZW770)	
⚠ T901	1-433-545-11	TRANSFORMER, POWER	

6-2. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
51	X-3376-853-1	CABINET (FRONT) SUB ASSY (ZW750)	
51	X-3376-857-1	CABINET (FRONT) SUB ASSY (ZW770)	
52	3-031-182-01	RUBBER	
53	3-033-111-01	HOLDER (B), CASSETTE	
54	3-031-168-01	SPRING, CASSETTE	
55	A-3320-870-A	LID (B) SUB ASSY, CASSETTE	
56	A-3320-868-A	LID (A) SUB ASSY, CASSETTE	
57	3-033-110-01	HOLDER (A), CASSETTE	
58	3-031-156-01	KNOB (EQ)	
59	X-3376-854-1	PLATE ASSY, ORNAMENTAL	
60	3-031-145-01	KNOB (HI-SPEED)	
61	3-031-144-01	PLAY (1), KNOB	
62	3-031-147-01	KNOB (REW) (1)	
63	3-031-146-01	KNOB (FF) (1)	
64	3-031-148-01	KNOB (ST/EJ) (1)	
65	3-031-149-01	KNOB (PAUSE) (1)	
66	3-031-151-01	KNOB (REC)	
67	3-031-150-01	KNOB (PLAY) (2)	
68	3-031-153-01	KNOB (REW) (2)	
69	3-031-152-01	KNOB (FF) (2)	
70	3-031-154-01	KNOB (ST/EJ) (2)	
71	3-031-155-01	KNOB (PAUSE) (2)	
72	3-922-112-21	DAMPER	
* 73	1-672-178-11	RECORD/PLAYBACK SWITCH BOARD (ZW770)	
* 73	1-672-799-11	RECORD/PLAYBACK SWITCH BOARD (ZW750)	
S303	1-771-646-11	SWITCH, LEAF (HIGH-SPEED DUBBING)	

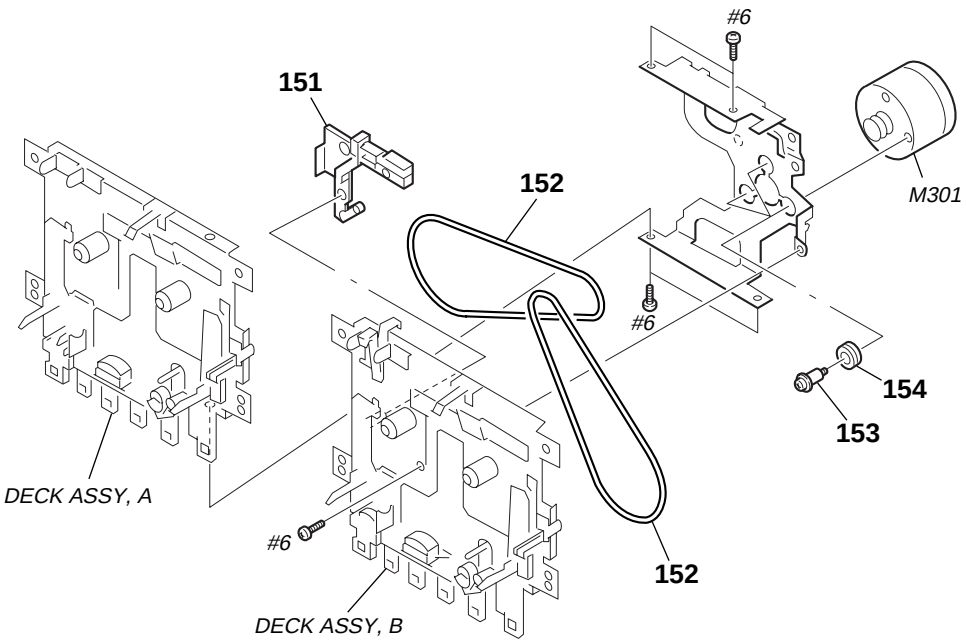
6-3. CD SECTION



Ref. No.	Part No.	Description	Remark
* 101	A-3321-775-A	MAIN BOARD, COMPLETE (ZW770)	
* 101	A-3321-782-A	MAIN BOARD, COMPLETE (ZW750)	
* 102	A-3321-772-A	CONTROL BOARD, COMPLETE (ZW770)	
* 102	A-3321-780-A	CONTROL BOARD, COMPLETE (ZW750)	
103	1-790-240-11	CABLE, FFC 30P	
104	1-790-241-11	CABLE, FFC 11P	
105	3-031-157-01	HOLDER (LCD) (ZW770)	
105	3-031-157-11	HOLDER (LCD) (ZW750)	
* 106	1-672-177-11	LAMP BOARD (ZW770)	
* 106	1-672-798-11	LAMP BOARD (ZW750)	
107	3-922-112-12	DAMPER	
108	3-031-137-01	WINDOW, CD	
109	3-031-136-01	LID, CD	
110	1-452-899-11	MAGNET	
111	3-021-020-01	PLATE, CHUCKING	
112	3-031-173-01	SPRING, CD	

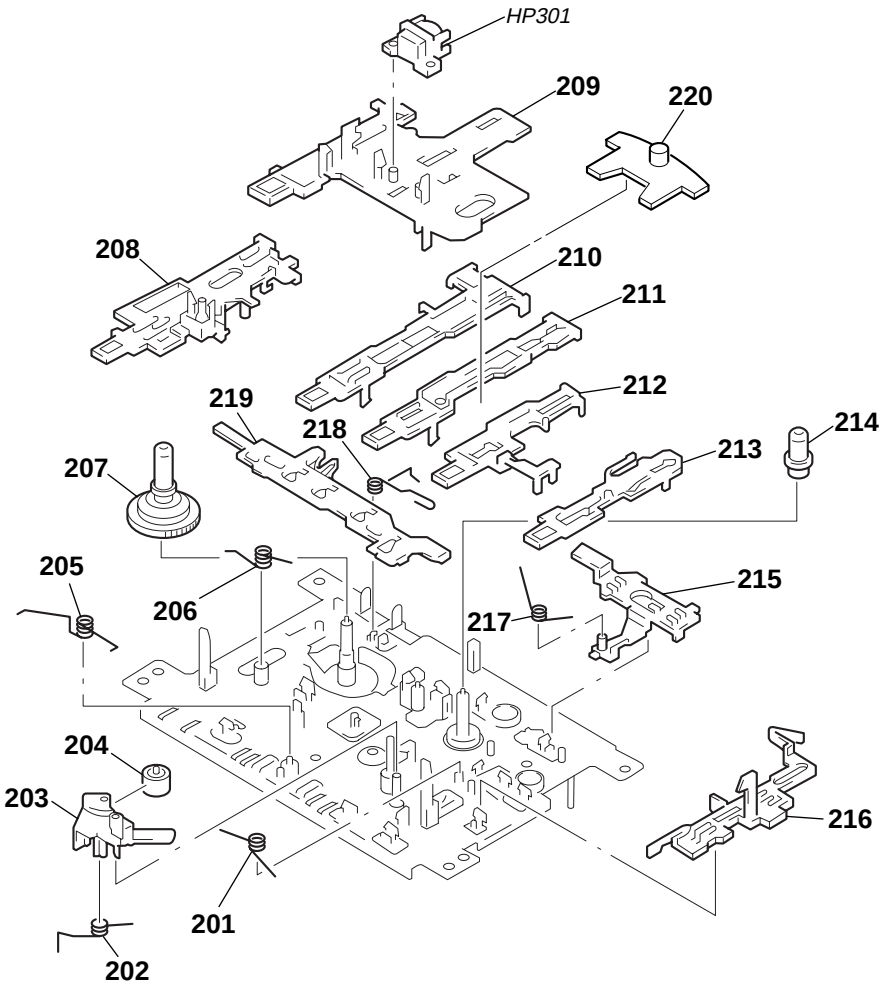
Ref. No.	Part No.	Description	Remark
113	3-923-736-01	COVER, CD	
114	1-777-494-11	WIRE, PARALLEL (FFC) (16 CORE)	
115	3-931-379-31	RUBBER, VIBRATION PROOF	
116	3-931-379-21	RUBBER, VIBRATION PROOF	
117	3-911-135-01	SCREW (2.6X10), (+PWH) TAPPING	
118	1-639-678-12	CD MOTOR BOARD	
* 119	A-3321-771-A	CD BOARD, COMPLETE	
120	3-032-951-01	HOLDER (LED A) (ZW770)	
121	3-032-952-01	HOLDER (LED B) (ZW770)	
122	3-032-953-01	HOLDER (LED C)	
* 123	3-033-101-01	ILLUMINATOR	
* 124	1-672-182-11	KEY BOARD	
LCD801	1-803-375-11	DISPLAY PANEL, LIQUID CRYSTAL (ZW770)	
LCD801	1-803-376-11	DISPLAY PANEL, LIQUID CRYSTAL (ZW750)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (CD DOOR OPEN/CLOSE)	

6-4. TAPE MECHANISM SECTION-1
(MF-ZW750-117)



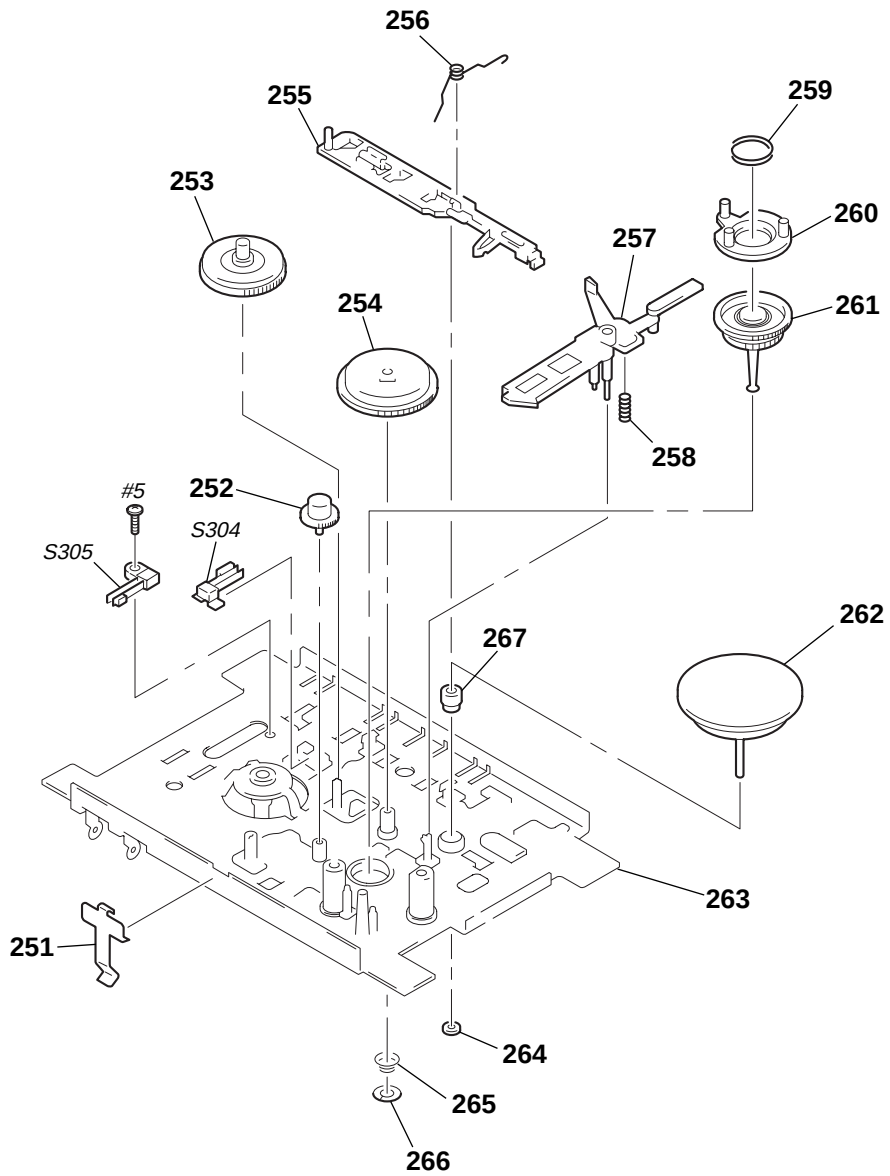
Ref. No.	Part No.	Description	Remark
151	3-025-846-01	LEVER (REC)	
152	3-016-031-11	BELT	
153	3-570-027-00	SCREW, MOTOR	
154	3-014-797-01	CUSHION, MOTOR	
M301	A-3311-837-A	MOTOR ASSY (W) (CAPSTAN/REEL)	

6-5. TAPE MECHANISM SECTION-2 (DECK A) (MF-ZW750-117)



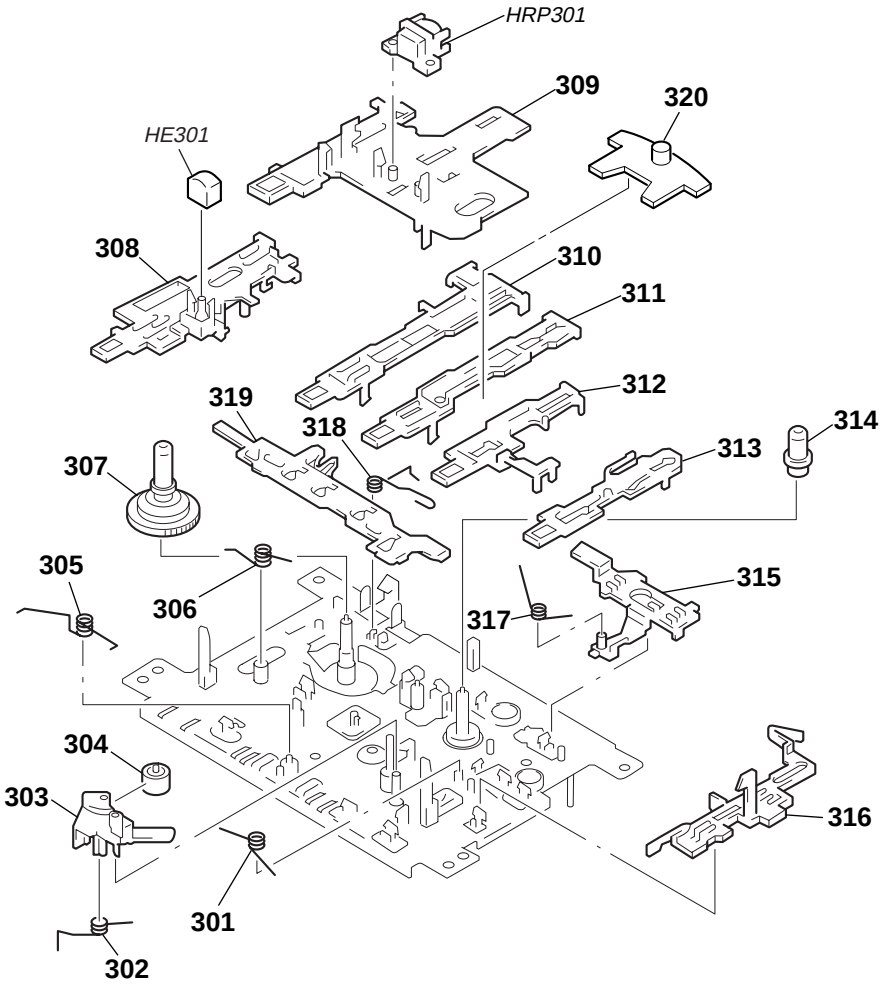
Ref. No.	Part No.	Description	Remark
201	3-933-010-01	SPRING (S/P), TORSION	
202	3-933-025-01	SPRING (P), TORSION	
203	3-933-026-01	LEVER (P)	
204	3-933-024-01	ROLLER, PINCH	
205	3-933-019-01	SPRING (F/R), TORSION	
206	3-933-028-01	SPRING (FWD), TORSION	
207	3-933-016-01	GEAR (S REEL)	
208	3-008-590-01	SLIDER (REC)	
209	3-008-592-01	BASE (H), HEAD	
* 210	3-008-588-01	SLIDER (REW)	
* 211	3-008-589-13	SLIDER (FF)	
* 212	3-008-587-01	SLIDER (STOP)	
* 213	3-008-591-01	SLIDER (PAUSE)	
214	3-933-004-01	CLAW, REEL	
* 215	3-933-021-01	SLIDER (FRP)	
* 216	3-933-006-01	SLIDER (EJECT)	
217	3-934-833-01	SPRING (FRP)	
218	3-022-794-02	SPRING (BT)	
219	3-933-007-01	PLATE, LOCK	
220	3-012-114-01	LEVER (FR)	
HP301	1-500-454-11	HEAD, MAGNETIC (PLAYBACK)	

6-6. TAPE MECHANISM SECTION-3 (DECK A) (MF-ZW750-117)



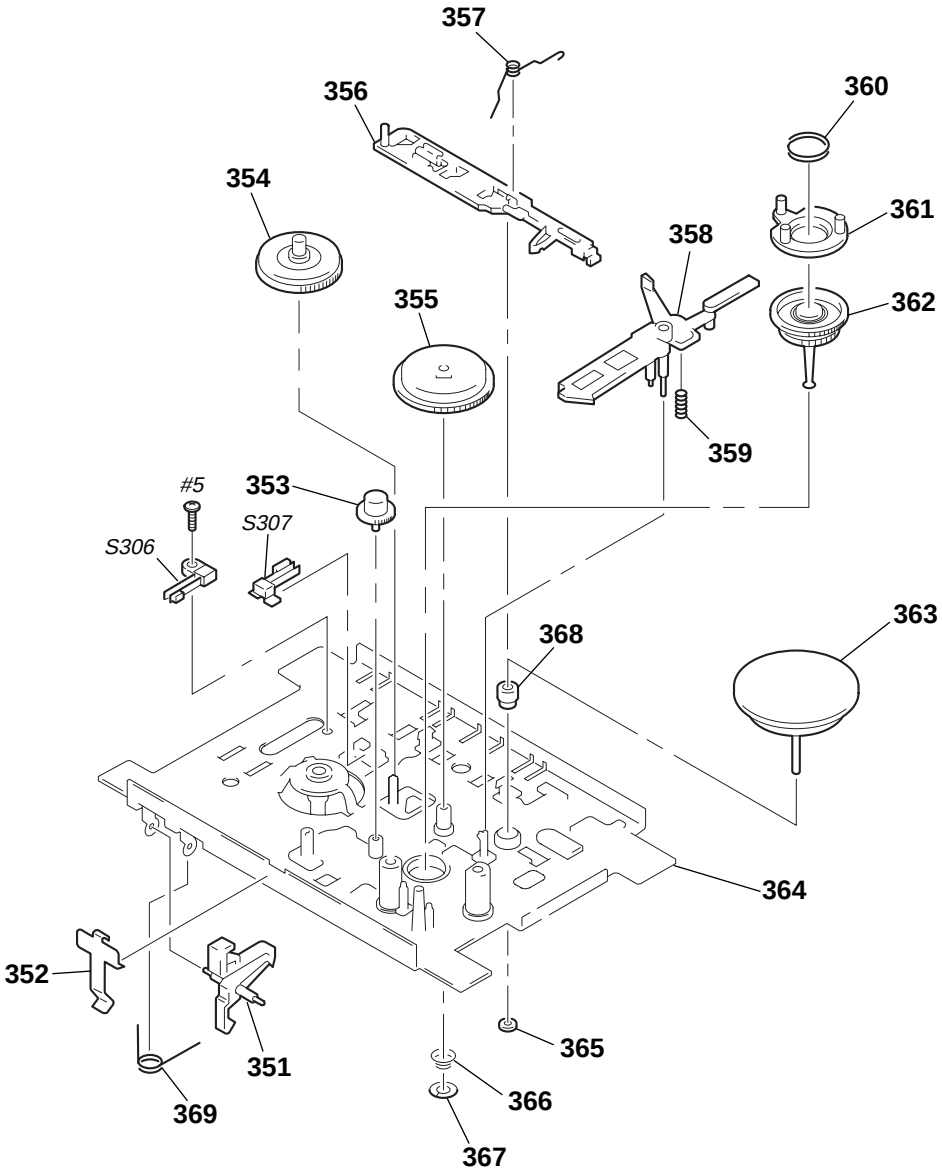
Ref. No.	Part No.	Description	Remark
251	3-933-182-01	SPRING, CASSETTE	
252	3-932-995-01	GEAR (MID)	
253	X-3371-667-1	CLUTCH ASSY	
254	3-932-997-01	GEAR (CAM)	
* 255	3-932-999-11	SLIDER (SW)	
256	3-932-998-01	SPRING (GROUND), TORSION	
257	3-009-648-01	LEVER (S.OFF)	
258	3-939-383-02	SPRING, COMPRESSION	
259	3-009-650-02	SPRING (K), COMPRESSION	
260	3-936-438-01	LEVER (K)	
261	X-3373-572-1	REEL ASSY (N), T	
262	X-3374-077-1	FLYWHEEL ASSY (W)	
263	3-932-993-01	CHASSIS, OUTSERT	
264	3-343-358-01	RING, RETAINING	
265	3-933-005-01	SPRING (CAM), COMPRESSION	
266	3-016-349-01	WASHER	
267	3-934-336-01	BEARING	
S304	1-771-686-11	SWITCH, LEAF (MD POWER)	
S305	1-771-059-11	SWITCH, LEAF (MD PLAY)	

6-7. TAPE MECHANISM SECTION-4 (DECK B) (MF-ZW750-117)



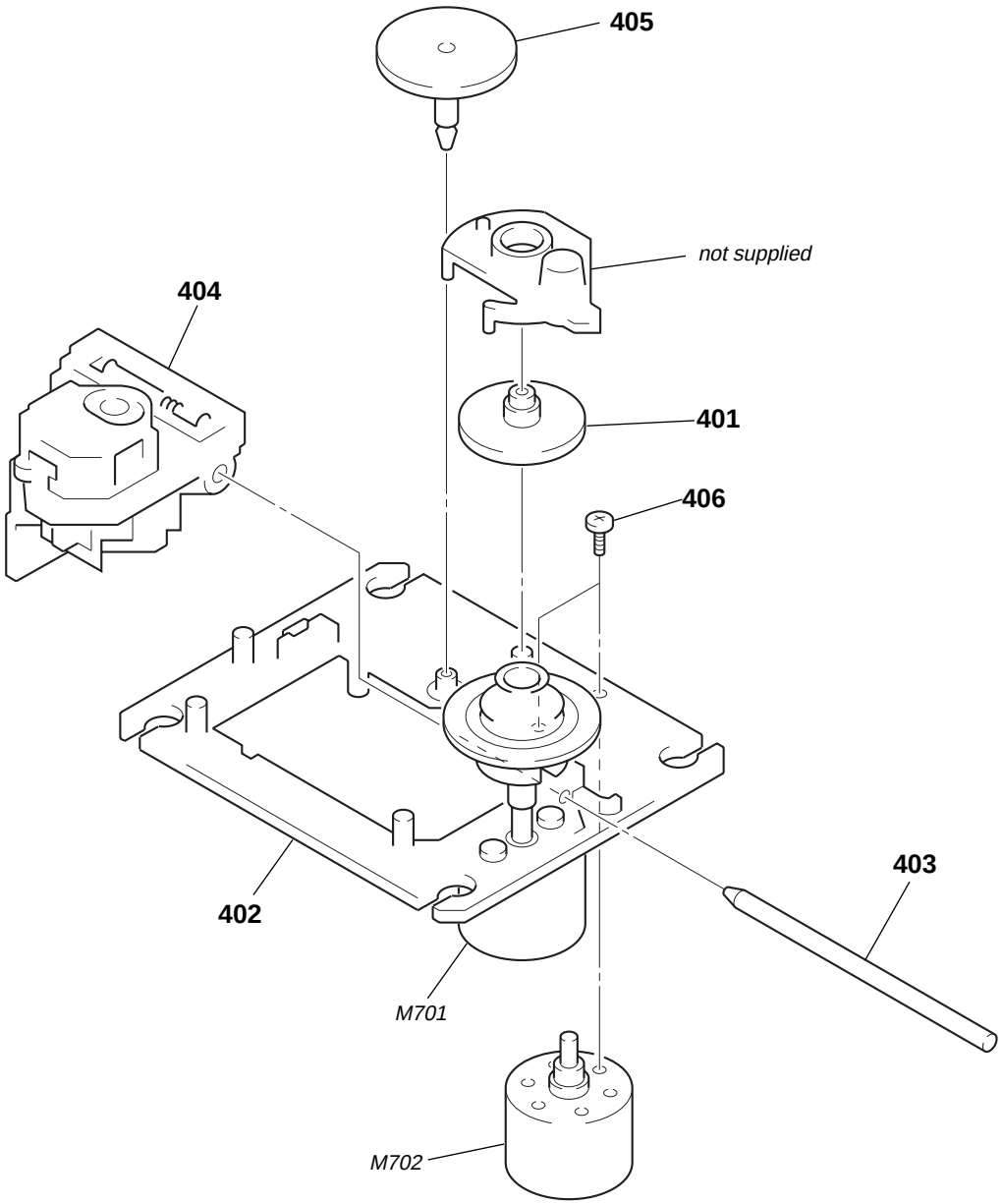
Ref. No.	Part No.	Description	Remark
301	3-933-010-01	SPRING (S/P), TORSION	
302	3-933-025-01	SPRING (P), TORSION	
303	3-933-026-01	LEVER (P)	
304	3-933-024-01	ROLLER, PINCH	
305	3-933-019-01	SPRING (F/R), TORSION	
306	3-933-028-01	SPRING (FWD), TORSION	
307	3-933-016-01	GEAR (S REEL)	
308	3-008-590-01	SLIDER (REC)	
309	3-008-592-01	BASE (H), HEAD	
* 310	3-008-588-01	SLIDER (REW)	
* 311	3-008-589-13	SLIDER (FF)	
* 312	3-008-587-01	SLIDER (STOP)	
* 313	3-008-591-01	SLIDER (PAUSE)	
314	3-933-004-01	CLAW, REEL	
* 315	3-933-021-01	SLIDER (FRP)	
* 316	3-933-006-01	SLIDER (EJECT)	
317	3-934-833-01	SPRING (FRP)	
318	3-022-794-02	SPRING (BT)	
319	3-933-007-01	PLATE, LOCK	
320	3-012-114-01	LEVER (FR)	
HE301	1-543-876-11	HEAD (ERASE)	
HRP301	1-500-454-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	

6-8. TAPE MECHANISM SECTION-5 (DECK B)
(MF-ZW750-117)



Ref. No.	Part No.	Description	Remark
351	3-933-029-01	LEVER, ERASING PREVENTION	
352	3-933-182-01	SPRING, CASSETTE	
353	3-932-995-01	GEAR (MID)	
354	X-3371-667-1	CLUTCH ASSY	
355	3-932-997-01	GEAR (CAM)	
* 356	3-932-999-11	SLIDER (SW)	
357	3-932-998-01	SPRING (GROUND), TORSION	
358	3-009-648-01	LEVER (S.OFF)	
359	3-939-383-02	SPRING, COMPRESSION	
360	3-009-650-02	SPRING (K), COMPRESSION	
361	3-936-438-01	LEVER (K)	
362	X-3373-572-1	REEL ASSY (N), T	
363	X-3374-077-1	FLYWHEEL ASSY (W)	
364	3-932-993-01	CHASSIS, OUTSERT	
365	3-343-358-01	RING, RETAINING	
366	3-933-005-01	SPRING (CAM), COMPRESSION	
367	3-016-349-01	WASHER	
368	3-934-336-01	BEARING	
S306	1-771-059-11	SWITCH, LEAF (MD PLAY)	
S307	1-771-686-11	SWITCH, LEAF (MD POWER)	

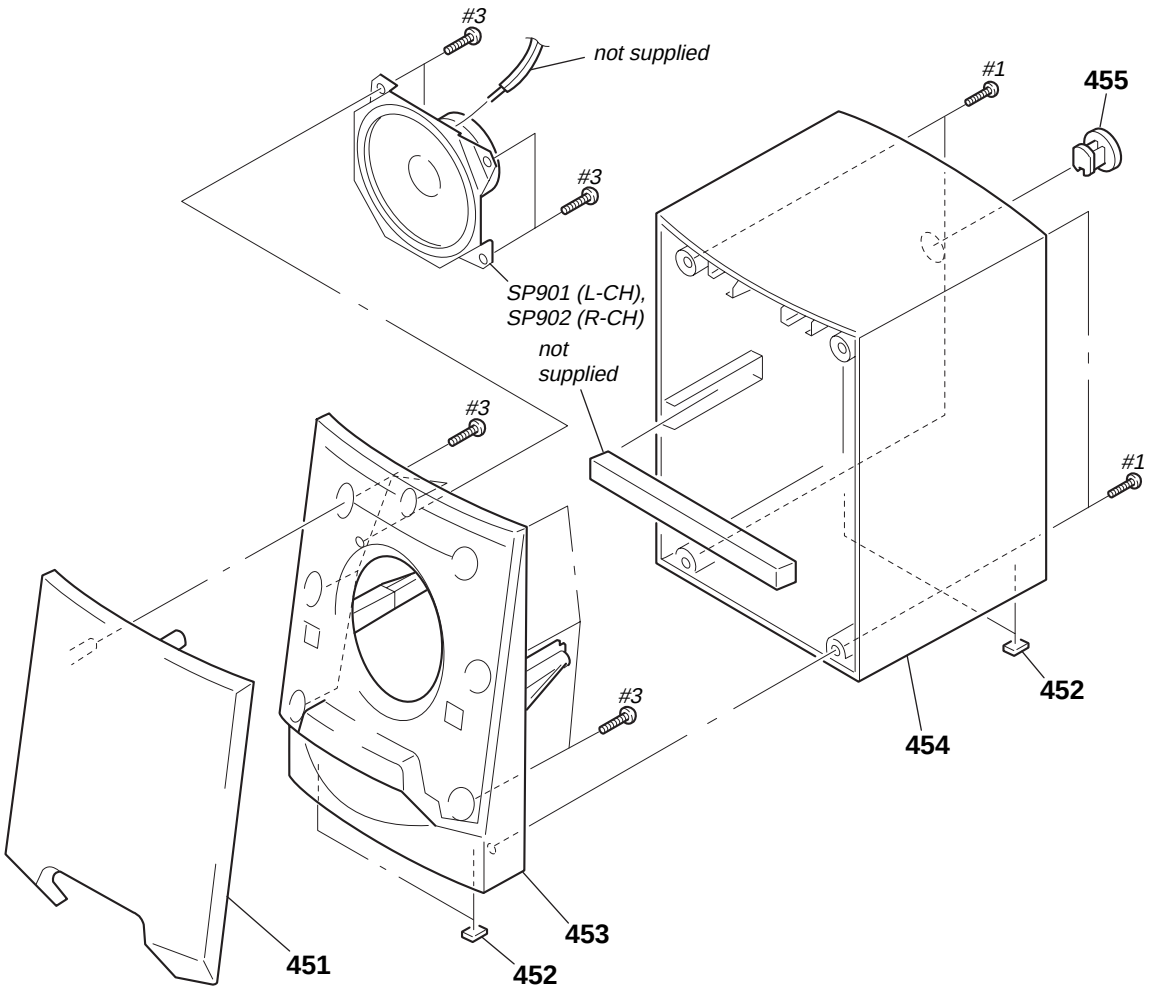
6-9. OPTICAL PICK-UP SECTION (KSS-213C)



The components identified by mark ⚠ or dotted line with mark. ⚠ are cr itical for saf ety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
401	2-627-003-02	GEAR (B) (RP)	
402	X-2626-202-1	CHASSIS ASSY (MB), MOTOR (SPINDLE) (INCLUDING M701)	
403	2-626-908-01	SHAFT, SLED	
⚠404	8-820-083-01	PICK-UP, OPTICAL KSS-213CB/C2N	
405	2-647-227-01	GEAR (A)	
406	3-713-786-51	SCREW +P 2X3	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	

6-10. SPEAKER SECTION



Ref. No.	Part No.	Description	Remark
451	X-3376-856-1	FRAME (NET) ASSY (ZW750)	
451	X-3376-885-1	FRAME (NET) ASSY (ZW770)	
452	3-031-182-01	RUBBER	
453	3-033-107-01	CABINET (FRONT), SPEAKER	
454	3-031-176-01	CABINET (REAR) (L), SPEAKER	
454	3-031-177-01	CABINET (REAR) (R), SPEAKER	

Ref. No.	Part No.	Description	Remark
455	3-008-700-11	STOPPER, CORD	
SP901	1-529-185-11	SPEAKER (L-CH) (ZW770)	
SP901	1-529-245-11	SPEAKER (L-CH) (ZW750)	
SP902	1-529-185-11	SPEAKER (R-CH) (ZW770)	
SP902	1-529-245-11	SPEAKER (R-CH) (ZW750)	

SECTION 7
ELECTRICAL PARTS LIST

BACK UP

BATTERY **CD**

NOTE:
- Due to standardization, replacements in the par ts list ma y be diff erent from the par ts specified in the diag rams or the components used on the set.
- -XX and -X mean standardized parts, so the y ma y ha ve some diff erence from the original one.
- RESIST ORS
  All resistors are in ohms.
  METAL:Metal-film resistor .
  METAL OXIDE: Metal o xide-film resistor .
  F:nonflammable
- Items mar ked "*"are not stoc ked since the y are seldom required f or routine ser vice. Some delay should be anticipated when ordering these items.
- SEMICONDUCT ORS
  In each case , u : μ, for e xample:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

The components identified b y mark ⚠ or dotted line with mark. ⚠ are cr itical for saf ety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce por tant le n uméro spécifié.

When indicating parts by reference number , please include the board.

Ref. No.	Part No.	Description			Remark
*	1-672-183-11	BACK UP BOARD (ZW770)			
*	1-672-800-11	BACK UP BOARD (ZW750)			
		**********			
		< CONNECTOR >			
* CNP913	1-691-573-11	PIN, CONNECTOR (PC BOARD) 2P			
**********					
*	1-672-176-11	BATTERY BOARD (ZW770)			
*	1-672-797-11	BATTERY BOARD (ZW750)			
		**********			
	3-031-171-01	SPRING (–), BATTERY			
	3-031-172-01	SPRING, BACK UP			
		< CONNECTOR >			
* CNP911	1-573-453-11	PLUG, CONNECTOR (2.5MM) 2P			
**********					
*	A-3321-771-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C702	1-162-306-11	CERAMIC	0.01uF	20%	16V
C703	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C704	1-137-374-11	FILM	0.047uF	5%	50V
C705	1-162-306-11	CERAMIC	0.01uF	20%	16V
C706	1-124-443-00	ELECT	100uF	20%	10V
C707	1-130-487-00	MYLAR	0.022uF	5%	50V
C708	1-162-851-11	CERAMIC	0.1uF	10%	16V
C709	1-162-851-11	CERAMIC	0.1uF	10%	16V
C710	1-161-047-00	CERAMIC	0.0047uF	10%	50V
C711	1-162-203-31	CERAMIC	15PF	5%	50V
C712	1-162-294-31	CERAMIC	0.001uF	10%	50V
C713	1-162-851-11	CERAMIC	0.1uF	10%	16V
C714	1-162-851-11	CERAMIC	0.1uF	10%	16V
C715	1-126-233-11	ELECT	22uF	20%	50V
C716	1-162-851-11	CERAMIC	0.1uF	10%	16V
C717	1-130-483-00	MYLAR	0.01uF	5%	50V
C718	1-131-377-00	TANTALUM	10uF	10%	10V
C719	1-104-664-11	ELECT	47uF	20%	10V
C720	1-162-306-11	CERAMIC	0.01uF	20%	16V
C721	1-130-489-00	MYLAR	0.033uF	5%	50V
C722	1-130-489-00	MYLAR	0.033uF	5%	50V
C723	1-162-306-11	CERAMIC	0.01uF	20%	16V

Ref. No.	Part No.	Description			Remark
C724	1-130-489-00	MYLAR	0.033uF	5%	50V
C725	1-137-440-11	FILM	0.018uF	5%	50V
C726	1-162-306-11	CERAMIC	0.01uF	20%	16V
C727	1-162-199-31	CERAMIC	10PF	5%	50V
C728	1-124-443-00	ELECT	100uF	20%	10V
C729	1-126-962-11	ELECT	3.3uF	20%	50V
C730	1-137-375-11	FILM	0.068uF	5%	50V
C731	1-162-215-31	CERAMIC	47PF	5%	50V
C732	1-162-306-11	CERAMIC	0.01uF	20%	16V
C733	1-162-306-11	CERAMIC	0.01uF	20%	16V
C734	1-162-282-31	CERAMIC	100PF	10%	50V
C735	1-162-306-11	CERAMIC	0.01uF	20%	16V
C737	1-162-282-31	CERAMIC	100PF	10%	50V
C739	1-162-282-31	CERAMIC	100PF	10%	50V
C741	1-161-053-00	CERAMIC	0.015uF	10%	50V
C742	1-162-306-11	CERAMIC	0.01uF	20%	16V
C743	1-162-294-31	CERAMIC	0.001uF	10%	50V
C744	1-124-472-11	ELECT	470uF	20%	10V
C745	1-124-443-00	ELECT	100uF	20%	10V
C746	1-162-282-31	CERAMIC	100PF	10%	50V
C747	1-162-282-31	CERAMIC	100PF	10%	50V
C749	1-162-306-11	CERAMIC	0.01uF	20%	16V
C750	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C752	1-162-306-11	CERAMIC	0.01uF	20%	16V
C753	1-124-443-00	ELECT	100uF	20%	10V
C755	1-162-306-11	CERAMIC	0.01uF	20%	16V
C756	1-162-306-11	CERAMIC	0.01uF	20%	16V
C757	1-124-443-00	ELECT	100uF	20%	10V
C758	1-162-306-11	CERAMIC	0.01uF	20%	16V
C759	1-124-443-00	ELECT	100uF	20%	10V
C760	1-137-194-81	FILM	0.47uF	5%	50V
C761	1-162-210-31	CERAMIC	30PF	5%	50V
C763	1-162-290-31	CERAMIC	470PF	10%	50V
C764	1-162-210-31	CERAMIC	30PF	5%	50V
C765	1-162-286-21	CERAMIC	220PF	10%	50V
C766	1-162-306-11	CERAMIC	0.01uF	20%	16V
C768	1-162-306-11	CERAMIC	0.01uF	20%	16V
C769	1-136-169-00	FILM	0.22uF	5%	50V
C771	1-162-282-31	CERAMIC	100PF	10%	50V
C772	1-162-282-31	CERAMIC	100PF	10%	50V
C773	1-124-443-00	ELECT	100uF	20%	10V
C775	1-162-306-11	CERAMIC	0.01uF	20%	16V
C776	1-162-294-31	CERAMIC	0.001uF	10%	50V
C777	1-162-306-11	CERAMIC	0.01uF	20%	16V

CD

Ref. No.	Part No.	Description			Remark
C780	1-162-284-31	CERAMIC	150PF	10%	50V
C781	1-162-292-31	CERAMIC	680PF	10%	50V
C782	1-126-963-11	ELECT	4.7uF	20%	50V
C790	1-162-284-31	CERAMIC	150PF	10%	50V
C791	1-162-292-31	CERAMIC	680PF	10%	50V
C792	1-126-963-11	ELECT	4.7uF	20%	50V
C798	1-162-282-31	CERAMIC	100PF	10%	50V
		< CONNECTOR >			
CNP701	1-779-553-11	CONNECTOR, FFC (LIF(NON-ZIF)) 16P			
* CNP702	1-691-577-11	PIN, CONNECTOR (PC BOARD) 6P			
* CNP703	1-784-732-11	CONNECTOR, FFC 10P			
* CNP704	1-695-108-11	PIN, CONNECTOR (PC BOARD) 6P			
		< DIODE >			
D701	8-719-991-33	DIODE 1SS133T-77			
D702	8-719-991-33	DIODE 1SS133T-77			
D703	8-719-991-33	DIODE 1SS133T-77			
		< COIL >			
FB701	1-414-142-11	INDUCTOR	1uH		
FB705	1-414-137-11	INDUCTOR	0.22uH		
		< IC >			
IC701	8-752-082-14	IC CXA1992BR			
IC702	8-759-473-42	IC BA6898FP			
IC703	8-752-384-13	IC CXD2589Q			
		< COIL >			
JW702	1-414-137-11	INDUCTOR	0.22uH		
		< TRANSISTOR >			
Q701	8-729-037-02	TRANSISTOR KTA1266Y-AT			
		< RESISTOR >			
R701	1-249-440-11	CARBON	82K	5%	1/4W
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-439-11	CARBON	68K	5%	1/4W
R704	1-249-439-11	CARBON	68K	5%	1/4W
R705	1-249-439-11	CARBON	68K	5%	1/4W
R706	1-249-440-11	CARBON	82K	5%	1/4W
R707	1-247-887-00	CARBON	220K	5%	1/4W
R709	1-247-883-00	CARBON	150K	5%	1/4W
R710	1-247-885-00	CARBON	180K	5%	1/4W
R711	1-247-883-00	CARBON	150K	5%	1/4W
R712	1-247-891-00	CARBON	330K	5%	1/4W
R714	1-249-421-11	CARBON	2.2K	5%	1/4W
R715	1-249-429-11	CARBON	10K	5%	1/4W
R716	1-249-429-11	CARBON	10K	5%	1/4W
R717	1-247-903-00	CARBON	1M	5%	1/4W
R718	1-247-899-11	CARBON	680K	5%	1/4W
R719	1-249-393-11	CARBON	10	5%	1/4W

Ref. No.	Part No.	Description			Remark
R720	1-249-430-11	CARBON	12K	5%	1/4W
R721	1-247-862-11	CARBON	20K	5%	1/4W
R722	1-247-886-11	CARBON	200K	5%	1/4W
R723	1-247-896-11	CARBON	510K	5%	1/4W
R724	1-249-439-11	CARBON	68K	5%	1/4W
R725	1-247-887-00	CARBON	220K	5%	1/4W
R726	1-247-883-00	CARBON	150K	5%	1/4W
R727	1-249-437-11	CARBON	47K	5%	1/4W
R728	1-249-441-11	CARBON	100K	5%	1/4W
R729	1-249-430-11	CARBON	12K	5%	1/4W
R730	1-249-435-11	CARBON	33K	5%	1/4W
R731	1-247-863-11	CARBON	22K	5%	1/4W
R733	1-249-417-11	CARBON	1K	5%	1/4W
R734	1-247-843-11	CARBON	3.3K	5%	1/4W
R735	1-249-427-11	CARBON	6.8K	5%	1/4W
R736	1-249-431-11	CARBON	15K	5%	1/4W
R738	1-249-435-11	CARBON	33K	5%	1/4W
R739	1-247-815-11	CARBON	220	5%	1/4W
R741	1-249-417-11	CARBON	1K	5%	1/4W
R742	1-249-417-11	CARBON	1K	5%	1/4W
R743	1-249-417-11	CARBON	1K	5%	1/4W
R744	1-249-417-11	CARBON	1K	5%	1/4W
R745	1-249-417-11	CARBON	1K	5%	1/4W
R746	1-249-417-11	CARBON	1K	5%	1/4W
R747	1-249-437-11	CARBON	47K	5%	1/4W
R748	1-249-417-11	CARBON	1K	5%	1/4W
R749	1-249-417-11	CARBON	1K	5%	1/4W
R750	1-247-863-11	CARBON	22K	5%	1/4W
R751	1-249-417-11	CARBON	1K	5%	1/4W
R752	1-249-417-11	CARBON	1K	5%	1/4W
R753	1-249-417-11	CARBON	1K	5%	1/4W
R755	1-249-417-11	CARBON	1K	5%	1/4W
R756	1-249-417-11	CARBON	1K	5%	1/4W
R757	1-249-417-11	CARBON	1K	5%	1/4W
R758	1-249-437-11	CARBON	47K	5%	1/4W
R759	1-249-437-11	CARBON	47K	5%	1/4W
R760	1-249-437-11	CARBON	47K	5%	1/4W
R764	1-247-843-11	CARBON	3.3K	5%	1/4W
R765	1-249-417-11	CARBON	1K	5%	1/4W
R766	1-249-429-11	CARBON	10K	5%	1/4W
R768	1-247-903-00	CARBON	1M	5%	1/4W
R771	1-249-429-11	CARBON	10K	5%	1/4W
R772	1-247-887-00	CARBON	220K	5%	1/4W
R780	1-249-430-11	CARBON	12K	5%	1/4W
R781	1-249-430-11	CARBON	12K	5%	1/4W
R782	1-249-430-11	CARBON	12K	5%	1/4W
R790	1-249-430-11	CARBON	12K	5%	1/4W
R791	1-249-430-11	CARBON	12K	5%	1/4W
R792	1-249-430-11	CARBON	12K	5%	1/4W
		< VIBRATOR >			
X701	1-577-253-11	VIBRATOR, CERAMIC (16.9344MHz)			

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Ref. No.	Part No.	Description			Remark
	1-639-678-12	CD MOTOR BOARD			
		**********			
		< CONNECTOR >			
CNP707	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< SWITCH >			
S701	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					
*	A-3321-772-A	CONTROL BOARD, COMPLETE (ZW770)			
*	A-3321-780-A	CONTROL BOARD, COMPLETE (ZW750)			
		**********			
	1-790-240-11	CABLE, FFC 30P			
	1-790-241-11	CABLE, FFC 11P			
	3-031-157-01	HOLDER (LCD) (ZW770)			
	3-031-157-11	HOLDER (LCD) (ZW750)			
	3-032-951-01	HOLDER (LED A) (ZW770)			
	3-032-952-01	HOLDER (LED B) (ZW770)			
	3-032-953-01	HOLDER (LED C)			
*	3-033-101-01	ILLUMINATOR			
	3-033-103-01	HOLDER (LED D) (ZW750)			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C801	1-162-282-31	CERAMIC	100PF	10%	50V
C802	1-162-282-31	CERAMIC	100PF	10%	50V
C803	1-162-282-31	CERAMIC	100PF	10%	50V
C804	1-162-294-31	CERAMIC	0.001uF	10%	50V
C805	1-162-282-31	CERAMIC	100PF	10%	50V
C806	1-162-282-31	CERAMIC	100PF	10%	50V
C808	1-164-032-11	CERAMIC	36PF	5%	50V
C809	1-164-032-11	CERAMIC	36PF	5%	50V
C810	1-164-031-11	CERAMIC	33PF	5%	50V
C811	1-164-031-11	CERAMIC	33PF	5%	50V
C812	1-162-306-11	CERAMIC	0.01uF	20%	16V
C813	1-162-306-11	CERAMIC	0.01uF	20%	16V
C814	1-124-903-11	ELECT	1uF	20%	50V
C815	1-162-282-31	CERAMIC	100PF	10%	50V
C816	1-162-306-11	CERAMIC	0.01uF	20%	16V
C819	1-162-294-31	CERAMIC	0.001uF	10%	50V
C820	1-104-666-11	ELECT	220uF	20%	10V
C821	1-162-306-11	CERAMIC	0.01uF	20%	16V
C822	1-102-962-00	CERAMIC	30PF	5%	50V
C823	1-102-962-00	CERAMIC	30PF	5%	50V
C824	1-124-907-11	ELECT	10uF	20%	50V
C825	1-162-306-11	CERAMIC	0.01uF	20%	16V
C826	1-162-294-31	CERAMIC	0.001uF	10%	50V
C827	1-162-282-31	CERAMIC	100PF	10%	50V
C828	1-162-282-31	CERAMIC	100PF	10%	50V
C829	1-162-282-31	CERAMIC	100PF	10%	50V
C830	1-162-282-31	CERAMIC	100PF	10%	50V
C831	1-162-282-31	CERAMIC	100PF	10%	50V
C832	1-162-282-31	CERAMIC	100PF	10%	50V
C833	1-162-282-31	CERAMIC	100PF	10%	50V
C834	1-162-282-31	CERAMIC	100PF	10%	50V
C835	1-162-282-31	CERAMIC	100PF	10%	50V
C838	1-162-282-31	CERAMIC	100PF	10%	50V
C839	1-162-282-31	CERAMIC	100PF	10%	50V
C840	1-162-282-31	CERAMIC	100PF	10%	50V
C841	1-162-282-31	CERAMIC	100PF	10%	50V
C842	1-162-282-31	CERAMIC	100PF	10%	50V
C843	1-162-282-31	CERAMIC	100PF	10%	50V
C844	1-162-282-31	CERAMIC	100PF	10%	50V
C845	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
* CNP801	1-695-107-11	PIN, CONNECTOR (PC BOARD) 5P			
* CNP802	1-784-732-11	CONNECTOR, FFC 10P			
* CNP803	1-784-789-11	CONNECTOR, FFC 28P			
CNP806	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNP807	1-691-573-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D801	8-719-991-33	DIODE 1SS133T-77			
D804	8-719-991-33	DIODE 1SS133T-77			
D805	8-719-991-33	DIODE 1SS133T-77			
D806	8-719-074-73	LED SLR-322VCBF (CLUB (SOUND)) (ZW770)			
D807	8-719-074-73	LED SLR-322VCBF (JAZZ (SOUND)) (ZW770)			
D808	8-719-074-73	LED SLR-322VCBF (POP (SOUND)) (ZW770)			
D809	8-719-074-73	LED SLR-322VCBF (ROCK (SOUND)) (ZW770)			
D810	8-719-074-73	LED SLR-322VCBF (MANUAL (SOUND)/5 BAND GRAPHIC EQUALIZER)			
D811	8-719-074-78	LED SLR-332MCBF (TAPE) (ZW770)			
D812	8-719-074-78	LED SLR-332MCBF (RADIO BAND) (ZW770)			
D813	8-719-074-78	LED SLR-332MCBF (CD) (ZW770)			
D814	8-719-059-97	LED L-34HD (OPR/BATT) (ZW750)			
D814	8-719-074-78	LED SLR-332MCBF (OPR/BATT) (ZW770)			
D815	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC801	8-752-900-12	IC CXP83516-601Q			
IC802	8-759-165-88	IC PST600I-T			
IC803	8-759-179-74	IC M62354P			
		< RESISTOR >			
JW823	1-249-425-11	CARBON	4.7K	5%	1/4W
		< COIL >			
L801	1-410-336-11	INDUCTOR	220uH		
L802	1-414-146-31	INDUCTOR	2.2uH		
L803	1-414-146-31	INDUCTOR	2.2uH		
L804	1-414-142-31	INDUCTOR	1uH		
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-803-375-11	DISPLAY PANEL, LIQUID CRYSTAL (ZW770)			

CONTROL

Ref. No.	Part No.	Description			Remark
LCD801	1-803-376-11	DISPLAY PANEL, LIQUID CRYSTAL (ZW750)			
		< TRANSISTOR >			
Q801	8-729-922-66	TRANSISTOR 2SC2410SN			
Q802	8-729-922-66	TRANSISTOR 2SC2410SN			
Q807	8-729-036-58	TRANSISTOR KRC102M-AT			
Q808	8-729-036-58	TRANSISTOR KRC102M-AT (ZW770)			
Q809	8-729-036-58	TRANSISTOR KRC102M-AT (ZW770)			
Q810	8-729-036-58	TRANSISTOR KRC102M-AT (ZW770)			
		< RESISTOR >			
R401	1-249-421-11	CARBON	2.2K	5%	1/4W
R402	1-249-429-11	CARBON	10K	5%	1/4W
R403	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-249-429-11	CARBON	10K	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R411	1-249-417-11	CARBON	1K	5%	1/4W
R412	1-249-417-11	CARBON	1K	5%	1/4W
R413	1-249-417-11	CARBON	1K	5%	1/4W
R414	1-249-417-11	CARBON	1K	5%	1/4W
R415	1-249-425-11	CARBON	4.7K	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-417-11	CARBON	1K	5%	1/4W
R803	1-249-417-11	CARBON	1K	5%	1/4W
R804	1-249-417-11	CARBON	1K	5%	1/4W
R805	1-249-417-11	CARBON	1K	5%	1/4W
R806	1-249-417-11	CARBON	1K	5%	1/4W
R807	1-249-417-11	CARBON	1K	5%	1/4W
R808	1-249-417-11	CARBON	1K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W
R811	1-249-417-11	CARBON	1K	5%	1/4W
R812	1-249-417-11	CARBON	1K	5%	1/4W
R813	1-249-429-11	CARBON	10K	5%	1/4W
R814	1-249-425-11	CARBON	4.7K	5%	1/4W
R815	1-249-425-11	CARBON	4.7K	5%	1/4W
R816	1-249-425-11	CARBON	4.7K	5%	1/4W
R817	1-249-411-11	CARBON	330	5%	1/4W
R818	1-249-411-11	CARBON	330	5%	1/4W
R819	1-249-411-11	CARBON	330	5%	1/4W
R820	1-249-411-11	CARBON	330	5%	1/4W
R821	1-249-425-11	CARBON	4.7K	5%	1/4W
R822	1-249-425-11	CARBON	4.7K	5%	1/4W
R823	1-249-425-11	CARBON	4.7K	5%	1/4W
R824	1-249-421-11	CARBON	2.2K	5%	1/4W
R825	1-249-421-11	CARBON	2.2K	5%	1/4W
R826	1-249-421-11	CARBON	2.2K	5%	1/4W
R827	1-249-421-11	CARBON	2.2K	5%	1/4W
R828	1-249-415-11	CARBON	680	5%	1/4W
R829	1-249-425-11	CARBON	4.7K	5%	1/4W
R830	1-249-417-11	CARBON	1K	5%	1/4W
R831	1-249-417-11	CARBON	1K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R832	1-249-429-11	CARBON	10K	5%	1/4W
R833	1-249-413-11	CARBON	470	5%	1/4W
R834	1-249-437-11	CARBON	47K	5%	1/4W
R835	1-249-425-11	CARBON	4.7K	5%	1/4W
R836	1-249-425-11	CARBON	4.7K	5%	1/4W
R837	1-249-425-11	CARBON	4.7K	5%	1/4W
R838	1-249-425-11	CARBON	4.7K	5%	1/4W
R839	1-247-872-11	CARBON	51K	5%	1/4W
R840	1-247-872-11	CARBON	51K	5%	1/4W
R841	1-247-872-11	CARBON	51K	5%	1/4W
R842	1-249-440-11	CARBON	82K	5%	1/4W
R843	1-249-417-11	CARBON	1K	5%	1/4W
R844	1-249-425-11	CARBON	4.7K	5%	1/4W
R845	1-249-425-11	CARBON	4.7K	5%	1/4W
R846	1-249-417-11	CARBON	1K	5%	1/4W
R847	1-249-417-11	CARBON	1K	5%	1/4W
R848	1-249-417-11	CARBON	1K	5%	1/4W
R849	1-249-437-11	CARBON	47K	5%	1/4W
R850	1-249-417-11	CARBON	1K	5%	1/4W
R851	1-249-417-11	CARBON	1K	5%	1/4W
R852	1-247-807-31	CARBON	100	5%	1/4W
R853	1-249-417-11	CARBON	1K	5%	1/4W
R854	1-247-807-31	CARBON	100	5%	1/4W
R855	1-249-417-11	CARBON	1K	5%	1/4W
R856	1-249-421-11	CARBON	2.2K	5%	1/4W
R857	1-249-425-11	CARBON	4.7K	5%	1/4W
R858	1-249-425-11	CARBON	4.7K	5%	1/4W
R859	1-249-417-11	CARBON	1K	5%	1/4W
R860	1-249-425-11	CARBON	4.7K	5%	1/4W
R865	1-249-411-11	CARBON	330	5%	1/4W
R866	1-247-815-11	CARBON	220	5%	1/4W (ZW770)
R867	1-247-815-11	CARBON	220	5%	1/4W (ZW770)
R868	1-247-815-11	CARBON	220	5%	1/4W (ZW770)
R869	1-249-410-11	CARBON	270	5%	1/4W
R871	1-249-415-11	CARBON	680	5%	1/4W
R872	1-249-416-11	CARBON	820	5%	1/4W
R873	1-249-418-11	CARBON	1.2K	5%	1/4W
R874	1-249-420-11	CARBON	1.8K	5%	1/4W
R875	1-249-415-11	CARBON	680	5%	1/4W
R876	1-249-416-11	CARBON	820	5%	1/4W
R877	1-249-418-11	CARBON	1.2K	5%	1/4W
R878	1-249-420-11	CARBON	1.8K	5%	1/4W
R879	1-247-843-11	CARBON	3.3K	5%	1/4W
R880	1-249-427-11	CARBON	6.8K	5%	1/4W
R881	1-249-432-11	CARBON	18K	5%	1/4W
R886	1-249-428-11	CARBON	8.2K	5%	1/4W
R887	1-249-427-11	CARBON	6.8K	5%	1/4W
R888	1-249-432-11	CARBON	18K	5%	1/4W
R889	1-249-415-11	CARBON	680	5%	1/4W
R890	1-249-416-11	CARBON	820	5%	1/4W

Ref. No.	Part No.	Description			Remark
R891	1-249-418-11	CARBON	1.2K	5%	1/4W
R892	1-247-843-11	CARBON	3.3K	5%	1/4W
R893	1-249-427-11	CARBON	6.8K	5%	1/4W
R894	1-249-435-11	CARBON	33K	5%	1/4W
R895	1-247-903-00	CARBON	1M	5%	1/4W
R896	1-249-441-11	CARBON	100K	5%	1/4W
R897	1-249-441-11	CARBON	100K	5%	1/4W
R898	1-247-807-31	CARBON	100	5%	1/4W
		< VARIABLE RESISTOR >			
RV401	1-225-762-11	RES, VAR, SLIDE 50K (MEGA BASS (5 BAND GRAPHIC EQUALIZER))			
RV402	1-225-763-11	RES, VAR, SLIDE 50K (400Hz (5 BAND GRAPHIC EQUALIZER))			
RV403	1-225-763-11	RES, VAR, SLIDE 50K (1kHz (5 BAND GRAPHIC EQUALIZER))			
RV404	1-225-763-11	RES, VAR, SLIDE 50K (4kHz (5 BAND GRAPHIC EQUALIZER))			
RV405	1-225-763-11	RES, VAR, SLIDE 50K (10kHz (5 BAND GRAPHIC EQUALIZER))			
		< SWITCH >			
S803	1-762-798-11	SWITCH, KEY BOARD (CLUB (SOUND))			
S804	1-762-798-11	SWITCH, KEY BOARD (JAZZ (SOUND))			
S805	1-762-798-11	SWITCH, KEY BOARD (POP (SOUND))			
S806	1-762-798-11	SWITCH, KEY BOARD (ROCK (SOUND))			
S807	1-762-798-11	SWITCH, KEY BOARD (MANUAL (SOUND)/ 5BAND GRAPHIC EQUALIZER)			
S808	1-762-798-11	SWITCH, KEY BOARD (► II)			
S809	1-762-798-11	SWITCH, KEY BOARD (■)			
S810	1-762-798-11	SWITCH, KEY BOARD (►►I TUNE)			
S811	1-762-798-11	SWITCH, KEY BOARD (VOLUME +)			
S812	1-762-798-11	SWITCH, KEY BOARD (VOLUME –)			
S813	1-762-798-11	SWITCH, KEY BOARD (MODE)			
S814	1-762-798-11	SWITCH, KEY BOARD (FLASH)			
S815	1-762-798-11	SWITCH, KEY BOARD (LOOP)			
S821	1-762-798-11	SWITCH, KEY BOARD (I◄◄ TIME SET)			
S822	1-762-798-11	SWITCH, KEY BOARD (PRESET –)			
S823	1-762-798-11	SWITCH, KEY BOARD (PRESET +)			
S824	1-762-798-11	SWITCH, KEY BOARD (POWER)			
S825	1-762-798-11	SWITCH, KEY BOARD (CD)			
S826	1-762-798-11	SWITCH, KEY BOARD (RADIO BAND)			
S827	1-762-798-11	SWITCH, KEY BOARD (TAPE)			
		< VIBRATOR >			
X801	1-767-184-11	VIBRATOR, CERAMIC (4.19MHz)			
X802	1-767-697-11	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	1-672-182-11	KEY BOARD			
		**********			
		< CAPACITOR >			
C871	1-164-159-21	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
		< IC >			
IC811	8-759-459-85	IC NJL63H400A			
		< RESISTOR >			
R882	1-249-415-11	CARBON	680	5%	1/4W
R883	1-249-416-11	CARBON	820	5%	1/4W
R884	1-249-418-11	CARBON	1.2K	5%	1/4W
R885	1-249-420-11	CARBON	1.8K	5%	1/4W
		< SWITCH >			
S816	1-762-798-11	SWITCH, KEY BOARD (TIMER)			
S817	1-762-798-11	SWITCH, KEY BOARD (SLEEP)			
S818	1-762-798-11	SWITCH, KEY BOARD (STANDBY)			
S819	1-762-798-11	SWITCH, KEY BOARD (CLOCK)			
S820	1-762-798-11	SWITCH, KEY BOARD (DISPLAY ENT MEM)			
**********					
*	1-672-177-11	LAMP BOARD (ZW770)			
		**********			
		< PILOT LAMP >			
PL801	1-517-863-11	LAMP, PILOT			
PL802	1-517-863-11	LAMP, PILOT			
PL803	1-517-863-11	LAMP, PILOT			
**********					
*	A-3321-775-A	MAIN BOARD, COMPLETE (ZW770)			
*	A-3321-782-A	MAIN BOARD, COMPLETE (ZW750)			
		**********			
*	3-031-181-01	HEAT SINK (ZW770)			
	3-345-648-71	SCREW (M1.4), TOOTHED LOCK (ZW770)			
	3-366-892-11	SCREW (M1.4X1.4) (ZW770)			
	3-704-197-03	SCREW (M1.4X1.6), LOCKING (ZW770)			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-164-159-21	CERAMIC	0.1uF		50V
C3	1-162-306-11	CERAMIC	0.01uF	20%	16V
C4	1-162-294-31	CERAMIC	0.001uF	10%	50V
C5	1-162-306-11	CERAMIC	0.01uF	20%	16V
C6	1-102-514-11	CERAMIC	22PF	5%	50V
C7	1-130-483-00	MYLAR	0.01uF	5%	50V
C8	1-162-294-31	CERAMIC	0.001uF	10%	50V
C10	1-162-282-31	CERAMIC	100PF	10%	50V
C11	1-162-306-11	CERAMIC	0.01uF	20%	16V
C12	1-162-306-11	CERAMIC	0.01uF	20%	16V
C13	1-162-288-31	CERAMIC	330PF	10%	50V
C14	1-124-903-11	ELECT	1uF	20%	50V
C15	1-164-159-21	CERAMIC	0.1uF		50V
C16	1-124-902-00	ELECT	0.47uF	20%	50V
C17	1-164-159-21	CERAMIC	0.1uF		50V
C21	1-161-494-00	CERAMIC	0.022uF		25V
C22	1-164-159-21	CERAMIC	0.1uF		50V

MAIN

Ref. No.	Part No.	Description			Remark
C24	1-162-199-31	CERAMIC	10PF	5%	50V
C25	1-102-820-00	CERAMIC	330PF	5%	50V
C26	1-164-159-21	CERAMIC	0.1uF		50V
C27	1-162-282-31	CERAMIC	100PF	10%	50V
C28	1-162-282-31	CERAMIC	100PF	10%	50V
C30	1-162-306-11	CERAMIC	0.01uF	20%	16V
C31	1-162-306-11	CERAMIC	0.01uF	20%	16V
C32	1-124-903-11	ELECT	1uF	20%	50V
C33	1-126-963-11	ELECT	4.7uF	20%	50V
C34	1-162-288-31	CERAMIC	330PF	10%	50V
C35	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C36	1-104-666-11	ELECT	220uF	20%	10V
C37	1-162-286-21	CERAMIC	220PF	10%	50V
C40	1-162-199-31	CERAMIC	10PF	5%	50V
C41	1-162-201-31	CERAMIC	12PF	5%	50V
C42	1-136-177-00	FILM	1uF	5%	50V
C43	1-104-665-11	ELECT	100uF	20%	16V
C44	1-162-306-11	CERAMIC	0.01uF	20%	16V
C45	1-162-294-31	CERAMIC	0.001uF	10%	50V
C46	1-162-306-11	CERAMIC	0.01uF	20%	16V
C47	1-162-294-31	CERAMIC	0.001uF	10%	50V
C48	1-162-294-31	CERAMIC	0.001uF	10%	50V
C49	1-162-306-11	CERAMIC	0.01uF	20%	16V
C50	1-162-843-11	CERAMIC	0.022uF	10%	16V
C51	1-162-843-11	CERAMIC	0.022uF	10%	16V
C52	1-124-903-11	ELECT	1uF	20%	50V
C53	1-124-903-11	ELECT	1uF	20%	50V
C54	1-126-941-11	ELECT	470uF	20%	16V
C57	1-162-294-31	CERAMIC	0.001uF	10%	50V
C58	1-162-282-31	CERAMIC	100PF	10%	50V
C59	1-162-282-31	CERAMIC	100PF	10%	50V
C60	1-162-282-31	CERAMIC	100PF	10%	50V
C101	1-162-294-31	CERAMIC	0.001uF	10%	50V
C102	1-162-290-31	CERAMIC	470PF	10%	50V
C103	1-162-851-11	CERAMIC	0.1uF	10%	16V
C104	1-126-233-11	ELECT	22uF	20%	50V
C105	1-162-294-31	CERAMIC	0.001uF	10%	50V
C106	1-162-290-31	CERAMIC	470PF	10%	50V
C107	1-126-233-11	ELECT	22uF	20%	50V
C108	1-162-840-11	CERAMIC	0.012uF	10%	16V
C109	1-124-903-11	ELECT	1uF	20%	50V
C110	1-124-903-11	ELECT	1uF	20%	50V
C112	1-162-286-21	CERAMIC	220PF	10%	50V
C113	1-124-903-11	ELECT	1uF	20%	50V
C114	1-124-903-11	ELECT	1uF	20%	50V
C115	1-126-963-11	ELECT	4.7uF	20%	50V
C116	1-124-903-11	ELECT	1uF	20%	50V
C117	1-162-290-31	CERAMIC	470PF	10%	50V
C123	1-124-907-11	ELECT	10uF	20%	50V
C125	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C126	1-104-664-11	ELECT	47uF	20%	10V
C127	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remark
C129	1-162-282-31	CERAMIC	100PF	10%	50V (ZW770)
C130	1-104-664-11	ELECT	47uF	20%	10V (ZW770)
C132	1-130-485-00	MYLAR	0.015uF	5%	50V
C133	1-130-485-00	MYLAR	0.015uF	5%	50V (ZW770)
C134	1-104-664-11	ELECT	47uF	20%	10V (ZW770)
C135	1-124-443-00	ELECT	100uF	20%	10V
C136	1-124-443-00	ELECT	100uF	20%	10V (ZW770)
C136	1-124-473-11	ELECT	1000uF	20%	10V (ZW750)
C201	1-162-294-31	CERAMIC	0.001uF	10%	50V
C202	1-162-290-31	CERAMIC	470PF	10%	50V
C203	1-162-851-11	CERAMIC	0.1uF	10%	16V
C204	1-126-233-11	ELECT	22uF	20%	50V
C205	1-162-294-31	CERAMIC	0.001uF	10%	50V
C206	1-162-290-31	CERAMIC	470PF	10%	50V
C207	1-126-233-11	ELECT	22uF	20%	50V
C208	1-162-840-11	CERAMIC	0.012uF	10%	16V
C209	1-124-903-11	ELECT	1uF	20%	50V
C210	1-124-903-11	ELECT	1uF	20%	50V
C211	1-162-286-21	CERAMIC	220PF	10%	50V
C212	1-162-286-21	CERAMIC	220PF	10%	50V
C213	1-124-903-11	ELECT	1uF	20%	50V
C214	1-124-903-11	ELECT	1uF	20%	50V
C215	1-126-963-11	ELECT	4.7uF	20%	50V
C216	1-124-903-11	ELECT	1uF	20%	50V
C217	1-162-290-31	CERAMIC	470PF	10%	50V
C223	1-124-907-11	ELECT	10uF	20%	50V
C225	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C226	1-104-664-11	ELECT	47uF	20%	10V
C227	1-162-282-31	CERAMIC	100PF	10%	50V
C229	1-162-282-31	CERAMIC	100PF	10%	50V (ZW770)
C230	1-104-664-11	ELECT	47uF	20%	10V (ZW770)
C232	1-130-485-00	MYLAR	0.015uF	5%	50V
C233	1-130-485-00	MYLAR	0.015uF	5%	50V (ZW770)
C234	1-104-664-11	ELECT	47uF	20%	10V (ZW770)
C235	1-124-443-00	ELECT	100uF	20%	10V
C236	1-124-443-00	ELECT	100uF	20%	10V (ZW770)
C236	1-124-473-11	ELECT	1000uF	20%	10V (ZW750)
C301	1-130-471-00	MYLAR	0.001uF	5%	50V
C302	1-130-483-00	MYLAR	0.01uF	5%	50V
C303	1-130-483-00	MYLAR	0.01uF	5%	50V
C304	1-124-443-00	ELECT	100uF	20%	10V
C305	1-162-306-11	CERAMIC	0.01uF	20%	16V
C306	1-162-306-11	CERAMIC	0.01uF	20%	16V

Ref. No.	Part No.	Description			Remark
C307	1-124-907-11	ELECT	10uF	20%	50V
C308	1-104-666-11	ELECT	220uF	20%	10V
C309	1-162-286-21	CERAMIC	220PF	10%	50V
C310	1-104-666-11	ELECT	220uF	20%	10V
C311	1-162-282-31	CERAMIC	100PF	10%	50V
C312	1-124-907-11	ELECT	10uF	20%	50V
C313	1-162-286-21	CERAMIC	220PF	10%	50V
C314	1-162-282-31	CERAMIC	100PF	10%	50V
C315	1-162-306-11	CERAMIC	0.01uF	20%	16V
C316	1-162-306-11	CERAMIC	0.01uF	20%	16V (ZW770)
C317	1-104-666-11	ELECT	220uF	20%	10V
C318	1-104-664-11	ELECT	47uF	20%	10V
C319	1-124-903-11	ELECT	1uF	20%	50V
C320	1-162-851-11	CERAMIC	0.1uF	10%	16V
C321	1-126-963-11	ELECT	4.7uF	20%	50V
C322	1-126-963-11	ELECT	4.7uF	20%	50V
C323	1-126-963-11	ELECT	4.7uF	20%	50V
C324	1-126-963-11	ELECT	4.7uF	20%	50V
C325	1-126-963-11	ELECT	4.7uF	20%	50V
C326	1-104-666-11	ELECT	220uF	20%	10V
C327	1-161-021-11	CERAMIC	0.047uF	10%	25V
C328	1-161-021-11	CERAMIC	0.047uF	10%	25V
C329	1-104-665-11	ELECT	100uF	20%	10V (ZW770)
C330	1-104-664-11	ELECT	47uF	20%	10V
C331	1-162-306-11	CERAMIC	0.01uF	20%	16V
C332	1-162-306-11	CERAMIC	0.01uF	20%	16V
C333	1-104-666-11	ELECT	220uF	20%	10V
C334	1-124-443-00	ELECT	100uF	20%	10V
C335	1-162-306-11	CERAMIC	0.01uF	20%	16V
C336	1-162-306-11	CERAMIC	0.01uF	20%	16V
C337	1-124-472-11	ELECT	470uF	20%	10V
C338	1-162-306-11	CERAMIC	0.01uF	30%	16V (ZW770)
C339	1-162-306-11	CERAMIC	0.01uF	30%	16V (ZW770)
C340	1-124-443-00	ELECT	100uF	20%	10V (ZW770)
C341	1-104-664-11	ELECT	47uF	20%	10V
C342	1-162-306-11	CERAMIC	0.01uF	20%	16V
C343	1-162-306-11	CERAMIC	0.01uF	20%	16V
C344	1-104-666-11	ELECT	220uF	20%	10V
C345	1-124-903-11	ELECT	1uF	20%	50V
C346	1-162-306-11	CERAMIC	0.01uF	20%	16V
C347	1-104-665-11	ELECT	100uF	20%	10V (ZW750)
C347	1-126-233-11	ELECT	22uF	20%	50V (ZW770)
C348	1-126-937-11	ELECT	4700uF	20%	16V
C349	1-126-961-11	ELECT	2.2uF	20%	50V
C350	1-126-941-11	ELECT	470uF	20%	16V
C351	1-126-963-11	ELECT	4.7uF	20%	50V
C352	1-126-233-11	ELECT	22uF	20%	50V (ZW770)

< FILTER >

CF1	1-760-738-61	FILTER, CERAMIC	
CF2	1-781-171-11	DISCRIMINATOR, CERAMIC	

< ENCAPSULATED COMPONENT >

CFT1	1-233-885-11	ENCAPSULATED COMPONENT (AM IFT)	

< CONNECTOR >

* CNP302	1-691-577-11	PIN, CONNECTOR (PC BOARD) 6P	
CNP303	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP304	1-691-577-11	PIN, CONNECTOR (PC BOARD) 6P (ZW770)	
* CNP304	1-691-577-21	PIN, CONNECTOR (PC BOARD) 6P (ZW750)	
* CNP305	1-691-579-11	PIN, CONNECTOR (PC BOARD) 8P	
* CNP307	1-784-789-11	CONNECTOR, FFC 28P	
* CNP308	1-691-573-11	PIN, CONNECTOR (PC BOARD) 2P (ZW770)	
* CNP310	1-691-577-11	PIN, CONNECTOR (PC BOARD) 6P (ZW750)	
* CNP310	1-691-577-21	PIN, CONNECTOR (PC BOARD) 6P (ZW770)	

< TRIMMER >

CT1	1-141-604-11	CAP, ADJ	30PF
CT2	1-141-601-11	CAP, ADJ	10PF

< DIODE >

D1	8-719-050-72	DIODE KV1370NT
D2	8-719-050-72	DIODE KV1370NT
D3	8-719-050-69	DIODE KV1520N
D4	8-719-991-33	DIODE 1SS133T-77
D5	8-719-991-33	DIODE 1SS133T-77
D6	8-719-991-33	DIODE 1SS133T-77
D8	8-719-991-33	DIODE 1SS133T-77
D9	8-719-991-33	DIODE 1SS133T-77
D10	8-719-109-89	DIODE RD5.6ESB2
D301	8-719-991-33	DIODE 1SS133T-77
D302	8-719-991-33	DIODE 1SS133T-77
D303	8-719-991-33	DIODE 1SS133T-77
D304	8-719-991-33	DIODE 1SS133T-77
D305	8-719-991-33	DIODE 1SS133T-77
D306	8-719-991-33	DIODE 1SS133T-77
D307	8-719-991-33	DIODE 1SS133T-77
D308	8-719-991-33	DIODE 1SS133T-77
D309	8-719-991-33	DIODE 1SS133T-77
D310	8-719-991-33	DIODE 1SS133T-77
D311	8-719-991-33	DIODE 1SS133T-77
D312	8-719-991-33	DIODE 1SS133T-77
D313	8-719-991-33	DIODE 1SS133T-77
D314	8-719-991-33	DIODE 1SS133T-77
D315	8-719-991-33	DIODE 1SS133T-77
D316	8-719-991-33	DIODE 1SS133T-77
D317	8-719-991-33	DIODE 1SS133T-77

MAIN

Ref. No.	Part No.	Description	Remark
D318	8-719-991-33	DIODE 1SS133T-77	
D319	8-719-991-33	DIODE 1SS133T-77	
D320	8-719-991-33	DIODE 1SS133T-77	
D321	8-719-991-33	DIODE 1SS133T-77	
D322	8-719-991-33	DIODE 1SS133T-77	
D323	8-719-109-89	DIODE RD5.6ESB2	
D324	8-719-991-33	DIODE 1SS133T-77	
D325	8-719-109-97	DIODE RD6.8ES-B2	
D326	8-719-991-33	DIODE 1SS133T-77	
D327	8-719-991-33	DIODE 1SS133T-77 (ZW770)	
D328	8-719-991-33	DIODE 1SS133T-77	
D329	8-719-929-15	DIODE HZS9.1NB2 (ZW770)	
D329	8-719-991-33	DIODE 1SS133T-77 (ZW750)	
D330	8-719-991-33	DIODE 1SS133T-77 (ZW750)	
D331	8-719-109-97	DIODE RD6.8ES-B2	
D332	8-719-991-33	DIODE 1SS133T-77 (ZW750)	
D333	8-719-991-33	DIODE 1SS133T-77	
D334	8-719-991-33	DIODE 1SS133T-77	
D335	8-719-991-33	DIODE 1SS133T-77	
D336	8-719-991-33	DIODE 1SS133T-77	
D337	8-719-991-33	DIODE 1SS133T-77	
D338	8-719-991-33	DIODE 1SS133T-77	
D339	8-719-991-33	DIODE 1SS133T-77	
D340	8-719-991-33	DIODE 1SS133T-77	
D341	8-719-991-33	DIODE 1SS133T-77	
D342	8-719-991-33	DIODE 1SS133T-77 (ZW770)	
D343	8-719-991-33	DIODE 1SS133T-77 (ZW770)	
		< FUSE HOLDER >	
FH1	1-533-233-11	HOLDER, FUSE (ZW750)	
FH1	1-533-233-31	HOLDER, FUSE (ZW770)	
		< BPF >	
FL1	1-236-711-21	FILTER, BAND PASS	
		< IC >	
IC1	8-759-549-84	IC TA2104AN	
IC2	8-759-549-57	IC LC72137-D	
IC301	8-759-457-58	IC BA3426AS	
IC302	8-752-067-34	IC CXA1352AS	
IC303	8-759-426-51	IC BA5417 (ZW770)	
IC304	8-759-426-51	IC BA5417	
IC305	8-759-095-60	IC S-81250PG (ZW750)	
IC305	8-759-479-70	IC S-81250SGY-B (ZW770)	
		< JACK >	
J301	1-566-891-21	JACK (🎧)	
		< TERMINAL BOARD >	
J302	1-537-330-11	TERMINAL BOARD (SPEAKER)	

Ref. No.	Part No.	Description	Remark
		< CABLE HOLDER >	
* KH1	1-565-386-11	HOLDER, CABLE 5P	
		< COIL >	
L1	1-409-905-31	COIL, FM RF	
L2	1-409-904-31	COIL, FM OSC	
L3	1-501-762-21	ANTENNA, FERRITE-ROD (AM)	
L4	1-411-234-41	COIL, AM OSC	
L5	1-410-509-11	INDUCTOR 10uH	
L6	1-414-142-11	INDUCTOR 1uH	
L101	1-410-521-11	INDUCTOR 100uH	
L201	1-410-521-11	INDUCTOR 100uH	
L301	1-410-324-11	INDUCTOR 4.7uH	
L302	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q1	8-729-036-77	TRANSISTOR KRC107M	
Q101	8-729-036-80	TRANSISTOR KRC110M	
Q201	8-729-036-80	TRANSISTOR KRC110M	
Q301	8-729-036-58	TRANSISTOR KRC102M-AT	
Q302	8-729-036-58	TRANSISTOR KRC102M-AT	
Q303	8-729-036-58	TRANSISTOR KRC102M-AT	
Q304	8-729-037-29	TRANSISTOR KRA102M	
Q305	8-729-036-77	TRANSISTOR KRC107M	
Q306	8-729-011-94	FET 2SK105ATP-3040	
Q307	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q308	8-729-036-57	TRANSISTOR KRC101M-AT	
Q309	8-729-037-29	TRANSISTOR KRA102M	
Q310	8-729-036-77	TRANSISTOR KRC107M	
Q311	8-729-037-17	TRANSISTOR KRA104M-AT	
Q312	8-729-036-77	TRANSISTOR KRC107M	
Q313	8-729-036-77	TRANSISTOR KRC107M	
Q314	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
Q315	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q316	8-729-037-29	TRANSISTOR KRA102M	
Q317	8-729-037-29	TRANSISTOR KRA102M	
Q318	8-729-036-58	TRANSISTOR KRC102M-AT	
Q319	8-729-036-58	TRANSISTOR KRC102M-AT	
Q320	8-729-037-03	TRANSISTOR KTA1266GR-AT	
Q321	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q322	8-719-010-66	TRANSISTOR UZ-10BSB	
Q323	8-729-036-80	TRANSISTOR KRC110M (ZW770)	
Q324	8-729-036-68	TRANSISTOR KRC112M-AT	
Q325	8-729-036-80	TRANSISTOR KRC110M	
Q327	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q328	8-729-037-03	TRANSISTOR KTA1266GR-AT	
Q329	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q330	8-729-036-86	TRANSISTOR KTC3203Y-AT (ZW750)	
Q330	8-729-209-15	TRANSISTOR 2SD2012 (ZW770)	
Q331	8-729-209-15	TRANSISTOR 2SD2012	
Q332	8-729-036-80	TRANSISTOR KRC110M (ZW750)	
Q332	8-729-209-15	TRANSISTOR 2SD2012 (ZW770)	

Ref. No.	Part No.	Description			Remark
Q333	8-729-209-15	TRANSISTOR	2SD2012		
Q334	8-729-036-86	TRANSISTOR	KTC3203Y-AT (ZW770)		
Q335	8-729-036-86	TRANSISTOR	KTC3203Y-AT (ZW770)		
Q336	8-729-037-17	TRANSISTOR	KRA104M-AT		
Q337	8-729-036-89	TRANSISTOR	KTC3198GR-AT		
Q338	8-729-037-03	TRANSISTOR	KTA1266GR-AT		
Q339	8-729-036-58	TRANSISTOR	KRC102M-AT		
Q340	8-729-036-86	TRANSISTOR	KTC3203Y-AT (ZW750)		
Q340	8-729-200-39	TRANSISTOR	2SC2236-Y (ZW770)		
		< RESISTOR >			
R1	1-247-887-00	CARBON	220K	5%	1/4W
R2	1-247-843-11	CARBON	3.3K	5%	1/4W
R3	1-249-441-11	CARBON	100K	5%	1/4W
R4	1-249-431-11	CARBON	15K	5%	1/4W
R5	1-249-429-11	CARBON	10K	5%	1/4W
R6	1-247-887-00	CARBON	220K	5%	1/4W
R7	1-247-807-11	CARBON	100	5%	1/4W
R8	1-249-421-11	CARBON	2.2K	5%	1/4W
R9	1-247-843-11	CARBON	3.3K	5%	1/4W
R10	1-249-421-11	CARBON	2.2K	5%	1/4W
R11	1-247-807-11	CARBON	100	5%	1/4W
R12	1-249-413-11	CARBON	470	5%	1/4W
R14	1-249-429-11	CARBON	10K	5%	1/4W
R15	1-249-417-11	CARBON	1K	5%	1/4W
R16	1-249-417-11	CARBON	1K	5%	1/4W
R17	1-249-417-11	CARBON	1K	5%	1/4W
R18	1-249-417-11	CARBON	1K	5%	1/4W
R19	1-249-393-11	CARBON	10	5%	1/4W
R25	1-249-417-11	CARBON	1K	5%	1/4W
R26	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-421-11	CARBON	2.2K	5%	1/4W
R29	1-249-425-11	CARBON	4.7K	5%	1/4W
R30	1-249-425-11	CARBON	4.7K	5%	1/4W
R32	1-249-408-11	CARBON	180	5%	1/4W
R33	1-249-415-11	CARBON	680	5%	1/4W
R34	1-247-863-11	CARBON	22K	5%	1/4W
R35	1-247-863-11	CARBON	22K	5%	1/4W
R36	1-249-429-11	CARBON	10K	5%	1/4W
R37	1-249-429-11	CARBON	10K	5%	1/4W
R38	1-249-437-11	CARBON	47K	5%	1/4W
R39	1-247-807-11	CARBON	100	5%	1/4W
R101	1-247-852-11	CARBON	7.5K	5%	1/4W
R103	1-247-815-11	CARBON	220	5%	1/4W
R104	1-247-815-11	CARBON	220	5%	1/4W
R105	1-247-807-11	CARBON	100	5%	1/4W
R106	1-249-424-11	CARBON	3.9K	5%	1/4W
R107	1-249-415-11	CARBON	680	5%	1/4W (ZW750)
R107	1-249-418-11	CARBON	1.2K	5%	1/4W (ZW770)
R108	1-247-863-11	CARBON	22K	5%	1/4W
R109	1-249-427-11	CARBON	6.8K	5%	1/4W
R110	1-247-807-11	CARBON	100	5%	1/4W (ZW750)
R110	1-249-410-11	CARBON	270	5%	1/4W (ZW770)
R111	1-249-410-11	CARBON	270	5%	1/4W (ZW770)
R112	1-249-434-11	CARBON	27K	5%	1/4W (ZW770)
R113	1-249-429-11	CARBON	10K	5%	1/4W
R114	1-249-431-11	CARBON	15K	5%	1/4W
R115	1-249-425-11	CARBON	4.7K	5%	1/4W
R116	1-249-385-11	CARBON	2.2	5%	1/6W
R117	1-249-385-11	CARBON	2.2	5%	1/6W (ZW770)
R118	1-249-417-11	CARBON	1K	5%	1/4W
R119	1-247-807-11	CARBON	100	5%	1/4W (ZW770)
R119	1-249-404-00	CARBON	82	5%	1/4W (ZW750)
R201	1-247-852-11	CARBON	7.5K	5%	1/4W
R203	1-247-815-11	CARBON	220	5%	1/4W
R204	1-247-815-11	CARBON	220	5%	1/4W
R205	1-247-807-11	CARBON	100	5%	1/4W
R206	1-249-424-11	CARBON	3.9K	5%	1/4W
R207	1-249-415-11	CARBON	680	5%	1/4W (ZW750)
R207	1-249-418-11	CARBON	1.2K	5%	1/4W (ZW770)
R208	1-247-863-11	CARBON	22K	5%	1/4W
R209	1-249-427-11	CARBON	6.8K	5%	1/4W
R210	1-247-807-11	CARBON	100	5%	1/4W (ZW750)
R210	1-249-410-11	CARBON	270	5%	1/4W (ZW770)
R211	1-249-410-11	CARBON	270	5%	1/4W (ZW770)
R212	1-249-434-11	CARBON	27K	5%	1/4W (ZW770)
R213	1-249-429-11	CARBON	10K	5%	1/4W
R214	1-249-431-11	CARBON	15K	5%	1/4W
R215	1-249-425-11	CARBON	4.7K	5%	1/4W
R216	1-249-385-11	CARBON	2.2	5%	1/6W
R217	1-249-385-11	CARBON	2.2	5%	1/6W (ZW770)
R218	1-249-417-11	CARBON	1K	5%	1/4W
R219	1-247-807-11	CARBON	100	5%	1/4W (ZW770)
R219	1-249-404-00	CARBON	82	5%	1/4W (ZW750)
R301	1-249-429-11	CARBON	10K	5%	1/4W
R302	1-247-895-11	CARBON	470K	5%	1/4W
R304	1-247-863-11	CARBON	22K	5%	1/4W
R306	1-249-417-11	CARBON	1K	5%	1/4W
R307	1-249-417-11	CARBON	1K	5%	1/4W
R308	1-247-818-11	CARBON	300	5%	1/4W
R309	1-249-427-11	CARBON	6.8K	5%	1/4W

MAIN

Ref. No.	Part No.	Description			Remark
R310	1-249-417-11	CARBON	1K	5%	1/4W
R311	1-249-427-11	CARBON	6.8K	5%	1/4W
R312	1-247-863-11	CARBON	22K	5%	1/4W
R313	1-247-863-11	CARBON	22K	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-425-11	CARBON	4.7K	5%	1/4W
R316	1-249-429-11	CARBON	10K	5%	1/4W
R317	1-247-863-11	CARBON	22K	5%	1/4W
R318	1-249-425-11	CARBON	4.7K	5%	1/4W (ZW750)
R319	1-249-429-11	CARBON	10K	5%	1/4W
R320	1-249-429-11	CARBON	10K	5%	1/4W
R321	1-249-429-11	CARBON	10K	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-249-429-11	CARBON	10K	5%	1/4W
R324	1-249-429-11	CARBON	10K	5%	1/4W
R325	1-249-418-11	CARBON	1.2K	5%	1/4W
R326	1-249-425-11	CARBON	4.7K	5%	1/4W
R327	1-249-437-11	CARBON	47K	5%	1/4W
R328	1-247-843-11	CARBON	3.3K	5%	1/4W
R329	1-249-437-11	CARBON	47K	5%	1/4W
R330	1-249-421-11	CARBON	2.2K	5%	1/4W
R331	1-247-884-11	CARBON	160K	5%	1/4W
R333	1-249-425-11	CARBON	4.7K	5%	1/4W
R334	1-249-441-11	CARBON	100K	5%	1/4W
R335	1-249-421-11	CARBON	2.2K	5%	1/4W (ZW770)
R336	1-249-431-11	CARBON	15K	5%	1/4W
R338	1-247-899-11	CARBON	680K	5%	1/4W
R339	1-247-889-00	CARBON	270K	5%	1/4W
R340	1-249-429-11	CARBON	10K	5%	1/4W
R341	1-249-421-11	CARBON	2.2K	5%	1/4W (ZW770)
R342	1-247-815-11	CARBON	220	5%	1/4W (ZW770)
R342	1-249-408-11	CARBON	180	5%	1/4W (ZW750)
R343	1-249-425-11	CARBON	4.7K	5%	1/4W
R344	1-249-425-11	CARBON	4.7K	5%	1/4W (ZW750)
R344	1-249-429-11	CARBON	10K	5%	1/4W (ZW770)
R345	1-249-421-11	CARBON	2.2K	5%	1/4W (ZW750)
R354	1-249-429-11	CARBON	10K	5%	1/4W (ZW770)
R355	1-249-425-11	CARBON	4.7K	5%	1/4W (ZW770)
R356	1-249-429-11	CARBON	10K	5%	1/4W
R357	1-249-441-11	CARBON	100K	5%	1/4W
R358	1-249-425-11	CARBON	4.7K	5%	1/4W (ZW750)
R358	1-249-429-11	CARBON	10K	5%	1/4W (ZW770)
R359	1-249-429-11	CARBON	10K	5%	1/4W
R360	1-249-441-11	CARBON	100K	5%	1/4W
R361	1-247-895-11	CARBON	470K	5%	1/4W
R362	1-249-429-11	CARBON	10K	5%	1/4W
R363	1-249-429-11	CARBON	10K	5%	1/4W
R364	1-249-425-11	CARBON	4.7K	5%	1/4W
R365	1-249-407-11	CARBON	150	5%	1/4W
R366	1-249-401-11	CARBON	47	5%	1/4W
⚠R367	1-212-934-00	FUSIBLE	1	5%	1/2W F (ZW770)
R369	1-249-407-11	CARBON	150	5%	1/4W
R370	1-249-407-11	CARBON	150	5%	1/4W
R371	1-249-437-11	CARBON	47K	5%	1/4W
R372	1-249-437-11	CARBON	47K	5%	1/4W
R373	1-249-417-11	CARBON	1K	5%	1/4W
R374	1-249-407-11	CARBON	150	5%	1/4W (ZW770)
R375	1-247-807-11	CARBON	100	5%	1/4W (ZW770)
R376	1-249-407-11	CARBON	150	5%	1/4W
R377	1-249-437-11	CARBON	47K	5%	1/4W
R378	1-249-425-11	CARBON	4.7K	5%	1/4W
R379	1-247-807-11	CARBON	100	5%	1/4W
R380	1-249-417-11	CARBON	1K	5%	1/4W
R381	1-249-437-11	CARBON	47K	5%	1/4W
R382	1-249-429-11	CARBON	10K	5%	1/4W
R385	1-247-828-11	CARBON	750	5%	1/4W
R387	1-249-429-11	CARBON	10K	5%	1/4W
R388	1-247-807-11	CARBON	100	5%	1/4W
R389	1-247-807-11	CARBON	100	5%	1/4W
R390	1-247-807-11	CARBON	100	5%	1/4W
R391	1-249-425-11	CARBON	4.7K	5%	1/4W (ZW770)
⚠R394	1-212-934-00	FUSIBLE	1	5%	1/2W F (ZW750)
		< VARIABLE RESISTOR >			
RV301	1-228-991-00	RES, ADJ, METAL 2.2K			
		< SWITCH >			
S302	1-554-798-31	SWITCH, SLIDE (ISS)			
		< TRANSFORMER >			
T301	1-433-346-11	TRANSFORMER, BIAS OSCILLATOR			
		< VIBRATOR >			
X1	1-760-130-11	VIBRATOR, CRYSTAL (75kHz)			

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The components identified by mark ⚠or dotted line with mark. ⚠are cr itical for saf ety. Replace only with part number specified.	Les composants identifiés par une marque ⚠sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	1-672-180-11	POWER BOARD (ZW770)			
*	1-672-802-11	POWER BOARD (ZW750)			
		**********			
	1-533-233-31	HOLDER, FUSE			
		< CAPACITOR >			
C901	1-161-055-00	CERAMIC	0.022uF	10%	50V
C902	1-161-055-00	CERAMIC	0.022uF	10%	50V
C903	1-161-055-00	CERAMIC	0.022uF	10%	50V
C904	1-161-055-00	CERAMIC	0.022uF	10%	50V
C906	1-161-055-00	CERAMIC	0.022uF	10%	50V
C907	1-161-055-00	CERAMIC	0.022uF	10%	50V
C908	1-126-942-61	ELECT	1000uF	20%	25V (ZW770)
C909	1-161-055-00	CERAMIC	0.022uF	10%	50V (ZW770)
C910	1-161-055-00	CERAMIC	0.022uF	10%	50V (ZW770)
		< CONNECTOR >			
* CNP901	1-506-780-11	PLUG, CONNECTOR (2.5MM) 5P			
		< DIODE >			
D901	8-719-046-07	DIODE 2A02M			
D902	8-719-046-07	DIODE 2A02M			
D903	8-719-046-07	DIODE 2A02M			
D904	8-719-046-07	DIODE 2A02M			
D905	8-719-031-85	DIODE 1N4002L (ZW770)			
D906	8-719-050-84	DIODE RB441Q-40T-77			
D907	8-719-991-33	DIODE 1SS133T-77			
D908	8-719-153-42	DIODE RD2.7EB2TN			
D909	8-719-031-85	DIODE 1N4002L (ZW770)			
D910	8-719-031-85	DIODE 1N4002L (ZW770)			
D911	8-719-031-85	DIODE 1N4002L (ZW770)			
		< FUSE >			
⚠F901	1-576-107-11	FUSE (3.15A/125V) (ZW750)			
⚠F901	1-576-109-11	FUSE (5A/125V) (ZW770)			
		< AC INLET >			
⚠J901	1-540-009-11	INLET, AC (~ AC IN)			
		< RESISTOR >			
⚠R901	1-208-757-51	FUSIBLE	2.2	5%	1/4W F (ZW770)
		< TRANSFORMER >			
⚠T901	1-433-545-11	TRANSFORMER, POWER			

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Ref. No.	Part No.	Description			Remark
*	1-672-178-11	RECORD/PLAYBACK SWITCH BOARD (ZW770)			
*	1-672-799-11	RECORD/PLAYBACK SWITCH BOARD (ZW750)			
		**********			
		< CONNECTOR >			
CNP301	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
		< RESISTOR >			
R102	1-249-417-11	CARBON	1K	5%	1/4W
R202	1-249-417-11	CARBON	1K	5%	1/4W
		< SWITCH >			
S301	1-692-167-11	SWITCH, SLIDE (REC/PB)			

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		MISCELLANEOUS	
		**********	
103	1-790-240-11	CABLE, FFC 30P	
104	1-790-241-11	CABLE, FFC 11P	
110	1-452-899-11	MAGNET	
114	1-777-494-11	WIRE, PARALLEL (FFC) (16 CORE)	
402	X-2626-202-1	CHASSIS ASSY (MB), MOTOR (SPINDLE) (INCLUDING M701)	
⚠404	8-820-083-01	PICK-UP, OPTICAL KSS-213CB/C2N	
ANT1	1-501-383-21	ANTENNA, TELESCOPIC	
⚠F901	1-576-107-11	FUSE (3.15A/125V) (ZW750)	
⚠F901	1-576-109-11	FUSE (5A/125V) (ZW770)	
HE301	1-543-876-11	HEAD (ERASE) (DECK B)	
HP301	1-500-454-11	HEAD, MAGNETIC (PLAYBACK) (DECK A)	
HRP301	1-500-454-11	HEAD, MAGNETIC (RECORD/PLAYBACK) (DECK B)	
LCD801	1-803-375-11	DISPLAY PANEL, LIQUID CRYSTAL (ZW770)	
LCD801	1-803-376-11	DISPLAY PANEL, LIQUID CRYSTAL (ZW750)	
M301	A-3311-837-A	MOTOR ASSY (W) (CAPSTAN/REEL)	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	
S303	1-771-646-11	SWITCH, LEAF (HIGH-SPEED DUBBING)	
S304	1-771-686-11	SWITCH, LEAF (MD POWER) (DECK A)	
S305	1-771-059-11	SWITCH, LEAF (MD PLAY) (DECK A)	
S306	1-771-059-11	SWITCH, LEAF (MD PLAY) (DECK B)	
S307	1-771-686-11	SWITCH, LEAF (MD POWER) (DECK B)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (CD DOOR OPEN/CLOSE)	
SP901	1-529-185-11	SPEAKER (L-CH) (ZW770)	
SP901	1-529-245-11	SPEAKER (L-CH) (ZW750)	
SP902	1-529-185-11	SPEAKER (R-CH) (ZW770)	
SP902	1-529-245-11	SPEAKER (R-CH) (ZW750)	
⚠T901	1-433-545-11	TRANSFORMER, POWER	

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Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-690-952-11	CORD, POWER (Canadian)	
⚠	1-783-878-11	CORD, POWER (US)	
	3-027-153-11	LID, BATTERY CASE (for RMT-CZW750A)	
	3-865-708-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-865-708-21	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	A-3250-915-A	REMOTE COMMANDER RMT-CZW750A//C (SET)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-649-79	SCREW +BVTP 3X14 TYPE2 N-S	
#2	7-682-548-04	SCREW +B 3X8	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
#5	7-685-783-09	SCREW +PTT 2X6 (S)	
#6	7-685-782-01	SCREW +PTT 2X5 (S)	
#7	7-685-136-19	SCREW +P 2.6X12 TYPE2 NON-SLIT	
#8	7-685-791-09	SCREW +PTT 2.6X5 (S)	

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